



# Hope Bay Mine

## 2025 Wildlife Mitigation and Monitoring Program Compliance Report

PREPARED FOR



**AGNICO EAGLE**

DATE

April 2026

REFERENCE

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# Hope Bay Mine

## 2025 Wildlife Mitigation and Monitoring Program Compliance Report

April 2026

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## EXECUTIVE SUMMARY

Wildlife mitigation and monitoring requirements for the Hope Bay Mine (the Mine) are included in the Doris Project Certificate No. 003 (Nunavut Impact Review Board [NIRB] 2016; Amendment 002), the Madrid-Boston Project Certificate No. 009 (NIRB 2018), and the Framework Agreement with the Kitikmeot Inuit Association (KitIA; the Framework Agreement [2015]). Monitoring activities are summarized in the Wildlife Mitigation and Monitoring Plan (WMMP), which is revised regularly.

The Mine is currently in Care and Maintenance status with advanced exploration activities. Madrid-Boston Final Environmental Impact Statement (Madrid-Boston FEIS) predictions include the assessment of steady state operations and do not consider Care and Maintenance activities and/or an active exploration program. To this end, with the Mine presently in Care and Maintenance, current activities and observed effects may not align with steady state operations, as assessed in the Madrid-Boston FEIS.

In 2025, monitoring data were collected, as outlined in the WMMP (Agnico Eagle Mines Limited [Agnico Eagle] 2023). Results from the 2025 Wildlife Mitigation and Monitoring Program (hereafter referred to as the Program) are summarized in Table 1. Overall, results indicate that Mine activities remain consistent with wildlife protection commitments. Wildlife observations, interactions, mortalities, and habitat loss were within the range of effects predicted in the FEIS and monitoring and mitigation measures are effective. Avian migratory stand watch surveys were completed in fall 2025 and data will be analyzed after additional surveys are completed in 2026. Traffic levels and aircraft activity results generally aligned with FEIS predictions, with any results that were above predictions attributable to Care and Maintenance or exploration activities not assessed in the FEIS. Overall, continued implementation of the Program will support ongoing understanding and management of potential Mine effects on wildlife.

TABLE 1 SUMMARY OF THE 2025 WILDLIFE MITIGATION AND MONITORING PLAN COMPLIANCE REPORT RESULTS

Program Component	Reason for Program	Results	Comparison to Terms and Conditions, Predictions, and Program Objectives	Report Section
Habitat Loss	Addresses commitments in the WMMP (Agnico Eagle 2025).	<ul style="list-style-type: none"> <li>The total habitat loss in 2025 was 33.59 ha for a cumulative total of 193.26 ha overall. This is 4.04% of the approved PDA.</li> <li>Additions to the Mine footprint included new exploration tracks in the Madrid area and early work activities in the Doris area.</li> <li>Habitat loss was &lt; 0.1% of the suitable habitat available in the Madrid-Boston FEIS RSA for caribou, muskox, and grizzly bear, and 0.11% for wolverine. Habitat loss was approximately 0.4% or less of all suitable habitat available in the Madrid-Boston FEIS LSA for upland breeding birds, waterbirds, and short-eared owls.</li> </ul>	<ul style="list-style-type: none"> <li>The Madrid-Boston FEIS predicted a negligible magnitude effect of habitat loss for caribou, grizzly bear, and wolverine, and a low magnitude effect for upland breeding birds, waterbirds, and raptors.</li> <li>The magnitude of habitat loss to date is 4.0% of the Madrid-Boston FEIS PDA. Hence, the conclusions of the Madrid-Boston FEIS remain valid.</li> </ul>	2.1
Road Traffic Monitoring	Addresses commitments in the WMMP (Agnico Eagle 2025) and Project Certificate Term and Condition 20 (NIRB 2018).	<ul style="list-style-type: none"> <li>Minimum, maximum and average daily traffic from Roberts Bay to Doris (wildlife camera 18) and between Doris and Madrid North (camera 35) was summarized from the available camera data.</li> <li>All 3 months with available data from camera 18 were above the predictions of 20 daily transits (35.2 in September, 47.8 in July, and 34.4 in August) from the Madrid-Boston FEIS for the daily average transits from Roberts Bay to Doris.</li> <li>For the 5 months with available data for camera 35, daily average transits from Doris Camp to Madrid North were below predictions (172 daily transits) from the Madrid-Boston FEIS for all months except for August 2025, which had 198.4 daily transits.</li> </ul>	<ul style="list-style-type: none"> <li>While the traffic volumes were above the predicted seasonal average, this time period coincides with the time when very few caribou are at the Mine so further assessment is not justified.</li> <li>The additional traffic is occurring while the Mine is undertaking an advanced exploration program while remaining in Care and Maintenance in 2025 and as a result, the traffic levels do not align with the volume originally predicted in the Madrid-Boston FEIS.</li> </ul>	2.2
Helicopter and Fixed-Wing Flight Monitoring	Addresses commitments in the WMMP (Agnico Eagle 2025) and Project Commitment GN-60 from Project Certificate No. 009 (NIRB 2018).	<ul style="list-style-type: none"> <li>Helicopter trips around Boston and Doris, and between Boston and Doris were summarized from 2025 flight records.</li> <li>Helicopter trips between Boston and Doris, and around Boston, occurred far below maximum frequencies predicted in the Madrid-Boston FEIS. Daily maximum activity in the Doris area was higher than predicted in the Madrid-Boston FEIS.</li> <li>Fixed-wing aircraft flights occurred on average at 41% of the frequencies modelled for noise disturbance in the Madrid-Boston FEIS.</li> </ul>	<ul style="list-style-type: none"> <li>The majority of helicopter and fixed-wing aircraft flight traffic levels were below levels predicted in the Madrid-Boston FEIS.</li> <li>Helicopter traffic in the Doris area was higher than predicted maximums because of the Madrid drilling program; however, this exploration program was not included in the Madrid-Boston FEIS. To prevent impacts to wildlife, helicopters maintained 300 m vertical and 600 m horizontal separation (including starts and takeoffs) from caribou and muskox.</li> </ul>	2.3
Noise Monitoring	Project Commitment Term and Condition 4 (NIRB 2018) and Final Hearing Commitment GN-41 (Appendix B in Project Certificate No. 009).	<ul style="list-style-type: none"> <li>In 2025, noise monitoring was completed and summarized for 30 instances of blasting.</li> <li>The results were inconsistent and impacted by ambient noise at the site.</li> </ul>	<ul style="list-style-type: none"> <li>The Madrid-Boston FEIS predicted that 96 Lpeak dBZ was not expected to be exceeded at 2,800 m from the location of the blast. The results could not be used to confirm that the overpressure value of 96 Lpeak dBZ will not be exceeded at 2,800 m from the location of the blast.</li> <li>Prior to blasting, prechecks were completed, and there were no instances of caribou observed within line of sight out to 2.8 km of the blasting point.</li> <li>The inconsistent results of the monitoring suggest that a local monitoring approach would be more effective to determine impacts to caribou at the Mine.</li> </ul>	2.5
Construction Management	Addresses commitments in the WMMP (Agnico Eagle 2025).	<ul style="list-style-type: none"> <li>Wildlife residence (bird nests and dens) preclearing surveys were completed in 2025 as vegetation clearing / ground disturbance activities took place.</li> <li>Three active and five inactive bird nests were found. Two nests were within vegetation clearing / ground disturbance areas and required nest buffers as mitigation. No dens were observed.</li> </ul>	<ul style="list-style-type: none"> <li>Wildlife residence preclearing surveys followed the WMMP (Agnico Eagle 2025). No wildlife residences were impacted by vegetation clearing or ground disturbance activities.</li> </ul>	2.6

Program Component	Reason for Program	Results	Comparison to Terms and Conditions, Predictions, and Program Objectives	Report Section
Facilities Camera Monitoring	Addresses Project Term and Condition 25 (NIRB 2016; Amendment 002).	<ul style="list-style-type: none"> <li>A total of 16 grizzly bear events were recorded at facility cameras. All events occurred at the ERM Fish Fence and consisted of one to three individuals.</li> <li>There were 38 events of caribou detections at specific monitoring cameras. These included nine events at crossing ramps and an additional 29 events at the TIA. However, caribou do not appear attracted to the TIA, as indicated by the low number of caribou events relative to the rest of the Mine.</li> </ul>	<ul style="list-style-type: none"> <li>The Madrid-Boston FEIS predicted bears and wolverines would be attracted to the site at a “low” magnitude. No wolverines or bears were observed on the Waste Management Facility cameras in 2025, indicating grizzly bears and wolverines are not generally attracted to the waste site; therefore, current mitigation is effective, and the Madrid-Boston FEIS prediction is valid.</li> <li>Events do not appear to indicate an attraction to the TIA specifically. No wolverine or muskox were recorded on cameras at the TIA. The overall low levels of wildlife recorded indicates that wildlife is seldom using the TIA area.</li> </ul>	3.4 to 3.8 (results within each section)
Wildlife Interactions	Addresses Project Term and Condition 25 (NIRB 2016; Amendment 002); Framework Agreement Schedule 3.1; J. Wildlife; and Items 2 and 7.	<ul style="list-style-type: none"> <li>In 2025, two caribou interactions occurred at the Mine. On 18 May, one caribou was resting near the Sump 1 blast area. Blasting activities were delayed while the caribou were gradually deterred from the site. On 17 October, five caribou were observed near the Airstrip ahead of scheduled crew-change flights. The caribou left the area prior to aircraft arriving and did not return.</li> <li>In 2025, 11 grizzly bear interactions occurred at the Mine. A female grizzly bear with two cubs was first observed on the Doris overburden on 16 June, where one bear banger was used to encourage the family group to move away from the camp. On 16 July, the same family group was near the camp, deterred again, and did not return. Deterrence with a drone was required on 8 September, when a grizzly bear approached the Geotech Shop. Additional drone deterrence occurred on 4 October to move a bear off the Helipad. The other eight reports throughout September and October involved single bears near Doris Mountain, the LRP, the Airstrip, or along site roads, which were monitored until they moved away naturally and no deterrence was required.</li> </ul>	<ul style="list-style-type: none"> <li>Attraction to the Mine was predicted as low in the Madrid-Boston FEIS for grizzly bear and wolverine due to smells associated with the camp. There were 11 grizzly bear interactions and no wolverine interactions in 2025. Grizzly bears were all successfully deterred.</li> <li>The predictions of the Madrid-Boston FEIS regarding attraction to the Mine remain valid.</li> </ul>	3.4 to 3.10 (results within each section)
Wildlife Incidents	Addresses Project Term and Condition 25 (NIRB 2016; Amendment 002); Framework Agreement Schedule 3.1; J. Wildlife; and Items 2 and 7.	<ul style="list-style-type: none"> <li>There were no wildlife incidents recorded in 2025.</li> </ul>	<ul style="list-style-type: none"> <li>Direct mortality of raptors and upland birds was predicted as a low magnitude effect at the extent of the PDA.</li> </ul>	3.4 to 3.10 (results within each section)
Wildlife Mortalities	Addresses Project Term and Condition 23 (NIRB 2018) and Term and Condition 25 (NIRB 2016; Amendment 002); Framework Agreement Schedule 3.1; J. Wildlife; and Items 2 and 7.	<ul style="list-style-type: none"> <li>There were 10 wildlife mortalities at the Mine in 2025, including VEC species.</li> <li>Two ptarmigan, one Arctic hare, and four Arctic ground squirrels were found deceased on site roads; some of which resulted from vehicle collisions, while others were observed with no evidence linking them to site activities. On 26 April, a partially scavenged ptarmigan carcass was found. On 9 June, an Arctic fox was found deceased behind the Sewage Treatment Plant, possibly the result of an injury. No details were provided for one of the Arctic ground squirrel mortalities.</li> <li>On 27 August, one caribou was found deceased within Quarry D. It was then reported to NIRB, Government of Nunavut Environmental Department and the KIA. A full investigation of the caribou mortality was completed.</li> </ul>	<ul style="list-style-type: none"> <li>Wildlife mortalities were predicted to be negligible for all VECs. The predictions of the Madrid-Boston FEIS remain valid.</li> </ul>	3.4 to 3.10 (results within each section)
Federal or Territorial Species at Risk	-	<ul style="list-style-type: none"> <li>There were 10 federal and/or territorial species at risk observed at the Mine in 2025, including:                             <ul style="list-style-type: none"> <li>Beverly/Ahiak herd, and Dolphin and Union herd caribou (barren-ground caribou);</li> <li>Grizzly bear;</li> <li>Wolverine;</li> <li>Two upland bird species: redpoll and semipalmated plover;</li> <li>One waterbird species: common eider;</li> <li>Two raptor species: golden eagle and short-eared owl; and</li> <li>Ringed seal.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Results of monitoring activities for these species are summarized in their respective sections.</li> </ul>	Caribou: 3.4 Grizzly bear: 3.6 Upland breeding birds: 3.8 Raptors: 3.10

Program Component	Reason for Program	Results	Comparison to Terms and Conditions, Predictions, and Program Objectives	Report Section
Caribou Kernel Density Analysis of Beverly/Ahiak Calving Range	Addresses commitments in the WMMP (Agnico Eagle 2025).	<ul style="list-style-type: none"> <li>Collar data from the Beverly and Ahiak subpopulations were analyzed for their core calving range (50% kernel density) and overall calving range (95% kernel density).</li> <li>The Ahiak core calving range did not overlap the Study Area in 2025 and was consistent with previous years (2002–2024). The 2025 Beverly herd's core calving range displayed minor overlap with the Study Area due to the presence of one individual occupying an area outside the Study Area on the eastern side.</li> </ul>	<ul style="list-style-type: none"> <li>The Beverly and Ahiak populations calving grounds have shown variation between years, but the core areas remain consistent. The Ahiak herd did not overlap the Study Area. The Beverly herd displayed minor overlap with the Study Area due to the presence of one individual occupying an area outside the Study Area. Therefore, additional mitigation is not warranted because the herds are not using the Study Area for calving.</li> </ul>	3.4
Caribou Kernel Density Analysis of Dolphin and Union Winter Range	Addresses comments on the 2016 Compliance Report (ERM 2017).	<ul style="list-style-type: none"> <li>Collar data from the Dolphin and Union herd were analyzed for their core (50% kernel density) and overall (95% kernel density) winter range.</li> <li>The core winter range did not overlap the Study Area in 2025 and was largely similar to the long-term range. The 95% range overlapped the Study Area in 2025 but remained within the historical 95% range, with the addition of a small range pocket on Victoria Island.</li> </ul>	<ul style="list-style-type: none"> <li>The Dolphin and Union herd's core and overall winter ranges in 2025 were consistent with historical ranges. As before, the core range did not overlap the Study Area.</li> </ul>	3.4
Wildlife Camera Monitoring—Caribou	Addresses commitments in the WMMP (Agnico Eagle 2025).	<ul style="list-style-type: none"> <li>There were 214 caribou events recorded in the Doris and Madrid areas during the recent monitoring period. These primarily occurred in the months of July and August, which contained 75% of total events.</li> <li>Caribou events were most commonly observed in the Treatment zone, which is consistent with previous years.</li> </ul>	<ul style="list-style-type: none"> <li>The Madrid-Boston FEIS predicted potential minor effects on caribou due to change in movement and behaviour from avoidance of infrastructure within &lt; 1–10 km<sup>2</sup> of the Mine, and possible avoidance of the Hope Bay Belt, a 3 to 4 km wide band of low-lying sedge meadows and rocky dykes.</li> <li>Camera data suggest that caribou are not avoiding the Mine.</li> </ul>	3.4
Wildlife Camera Monitoring—Muskox	Addresses commitments in the WMMP (Agnico Eagle 2025).	<ul style="list-style-type: none"> <li>Detections of muskox by wildlife cameras continue to be rare. There were two muskox events recorded in the Doris and Madrid areas during the recent monitoring period. These events occurred on 8 June 2025.</li> <li>Both events were observed on the same camera in the Control zone.</li> </ul>	<ul style="list-style-type: none"> <li>The Madrid-Boston FEIS predicted potential minor effects on muskox due to change in movement and behaviour from avoidance of infrastructure around the Mine.</li> <li>Muskox are rarely recorded in the RSA.</li> <li>While the number of muskox recorded during the most recent monitoring period is lower than previous years, the muskox camera data do not indicate avoidance of the Mine. The conclusions of the Madrid-Boston FEIS remain valid.</li> </ul>	3.5
Wildlife Camera Monitoring—Grizzly Bear	Addresses commitments in the WMMP (Agnico Eagle 2025).	<ul style="list-style-type: none"> <li>There were 100 grizzly bear events recorded in the Doris and Madrid areas during the recent monitoring period. These primarily occurred in the month of July, which contained 34% of the total events.</li> <li>A majority of events were observed in both the Treatment zone (39%) and ZOI (35%), with the remaining 26% occurring in the Control zone.</li> </ul>	<ul style="list-style-type: none"> <li>The Madrid-Boston FEIS predicted a potential minor effect due to grizzly bear altering their movement and behaviour to avoid the Mine site.</li> <li>The conclusions of the Madrid-Boston FEIS remain valid based on this monitoring method.</li> </ul>	3.6
Wildlife Camera Monitoring—Wolverine	Addresses commitments in the WMMP (Agnico Eagle 2025).	<ul style="list-style-type: none"> <li>There were four wolverine events recorded in the Doris and Madrid areas during the recent monitoring period. Events occurred between 10 April and 11 August 2025 and wolverine were observed in all monitoring zones.</li> <li>Wolverine events remained low in 2025, which is consistent with historical results.</li> </ul>	<ul style="list-style-type: none"> <li>The Madrid-Boston FEIS predicted potential minor effects on movement and behaviour of wolverine, including potential disruption of movement at the scale of the PDA or attraction to Mine infrastructure.</li> <li>Using the criteria for residual effects ratings from the Madrid-Boston FEIS, the residual impact on wolverines remains the same (categorized as a low magnitude, medium duration, and reversible, not significant effect).</li> </ul>	3.7
Upland Breeding Birds (Regional and TIA PRISM Surveys)	Addresses commitments in the WMMP (Agnico Eagle 2025), and Project Certificate Terms and Conditions 25 (NIRB 2016; Amendment 002) and 26 (NIRB 2018).	<ul style="list-style-type: none"> <li>Regional upland bird surveys following the PRISM protocols were not completed in 2025. The monitoring will be completed again in 2027.</li> </ul>	<ul style="list-style-type: none"> <li>Regional upland bird monitoring was last completed in 2024 to contribute to a regional Arctic monitoring initiative by the CWS.</li> </ul>	3.8

Program Component	Reason for Program	Results	Comparison to Terms and Conditions, Predictions, and Program Objectives	Report Section
Waterbirds (Regional and TIA Shoreline Surveys)	Addresses commitments in the WMMP (Agnico Eagle 2025); and Project Certificate Terms and Conditions 25 (NIRB 2016; Amendment 002) and 26 (NIRB 2018).	<ul style="list-style-type: none"> <li>Waterbird monitoring was conducted in 2024, and was therefore not repeated in 2025. Ground surveys for monitoring waterbirds and shorebirds will be continued in 2027.</li> </ul>	<ul style="list-style-type: none"> <li>Regional waterbird monitoring is scheduled to occur every 2 years. These surveys were completed for the first time in 2022 and then in 2024. As multiple years of monitoring are necessary to establish broader trends in waterbird activity, none are presented currently.</li> </ul>	3.9
Waterbirds (TIA Water Quality Monitoring)	Addresses commitments in the WMMP (Agnico Eagle 2025) and Project Term and Condition 26 (NIRB 2018).	<ul style="list-style-type: none"> <li>Water quality at the TIA was monitored weekly and did not exceed relevant CCME guidelines.</li> </ul>	<ul style="list-style-type: none"> <li>Water quality did not exceed relevant CCME guidelines, so no ecological risk assessment was required.</li> </ul>	3.9
Raptors	Addresses commitments in the WMMP (Agnico Eagle 2025) and Project Certificate Term and Condition 27 (NIRB 2018).	<ul style="list-style-type: none"> <li>No construction of the Madrid North area occurred in 2025 and, as such, no preconstruction surveys for raptors were completed.</li> </ul>	<ul style="list-style-type: none"> <li>Preconstruction monitoring in Madrid North was not necessary in 2025.</li> </ul>	3.10
Fall Avian Migration Stand Watch Surveys	Addresses Final Hearing Commitment GN-07 (Appendix B in Project Certificate No. 009).	<ul style="list-style-type: none"> <li>Fall avian migration stand watch surveys were completed at four survey locations, and ARUs were deployed at two locations between 6 and 9 September 2025.</li> <li>Data will be analyzed in combination with 2026 survey data and presented in the 2026 compliance report.</li> </ul>	<ul style="list-style-type: none"> <li>Additional stand watch surveys will be completed in spring 2026.</li> </ul>	3.11
Marine Mammals	Addresses commitments in the WMMP (Agnico Eagle 2025), and Project Certificate Terms and Conditions 30, 31, 32, and 33 (NIRB 2018).	<ul style="list-style-type: none"> <li>The Roberts Bay marine mammal program was completed for the third year in 2025. One ringed seal was recorded and did not display behavioural changes as a result of shipping activity.</li> <li>No marine wildlife incidents were reported along shipping routes. Vessel tracks from 2025 were summarized to confirm that mitigations for setbacks and designated routes were followed. Several marine mammal sightings were reported along shipping routes from the five vessels servicing the Mine.</li> </ul>	<ul style="list-style-type: none"> <li>The monitoring program and shipping procedures for marine mammals were completed in accordance with the procedures detailed in the Shipping Management Plan.</li> </ul>	3.12
Plants	Addresses commitments in the WMMP (Agnico Eagle 2025) and Project Term and Condition 17; and Commitment GN-04 (NIRB 2018).	<ul style="list-style-type: none"> <li>Invasive plant surveys were completed in 2023 and were therefore not completed in 2025.</li> </ul>	<ul style="list-style-type: none"> <li>No specific predictions around effects on plants were included in the Madrid-Boston FEIS.</li> <li>Monitoring for invasive plants occurs every 5 years and will occur again in 2029.</li> </ul>	3.13

## Notes:

< = less than; % = percent; Agnico Eagle = Agnico Eagle Mines Limited; ARU = autonomous recording unit; AWR = All-Weather-Road; CCME = Canadian Council of Ministers of the Environment; CWS = Canadian Wildlife Service; dBZ = Z-weighted decibel; ERM = ERM Consultants Canada Ltd.; FEIS = Final Environmental Impact Statement; ha = hectare; IEAC = Inuit Environment Advisory Committee; km = kilometre; km<sup>2</sup> = square kilometre; L<sub>peak</sub> = peak sound overpressure level; LSA = Local Study Area; m = metre; NIRB = Nunavut Impact Review Board; PDA = Project Development Area; PRISM = Program for Regional and International Shorebird Monitoring; RSA = Regional Study Area; TIA = Tailings Impoundment Area; VEC = valued ecosystem component; WMMP = Wildlife Mitigation and Monitoring Plan; ZOI = Zone of Influence

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## ACRONYMS AND ABBREVIATIONS

>	greater than
<	less than
%	percent
Agnico Eagle	Agnico Eagle Mines Limited
ARU	autonomous recording unit
AWR	All-Weather-Road
CCME	Canadian Council of Ministers of the Environment
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
CWS	Canadian Wildlife Service
dBZ	Z-weighted decibel
E	east
ECCC	Environment and Climate Change Canada
ELC	Ecological Land Classification
ERM	ERM Consultants Canada Ltd.
FEIS	Final Environmental Impact Statement
GIS	Geographical Information System
GPS	Global Positioning System
ha	hectare
HOL	height of land
IEAC	Inuit Environment Advisory Committee
KIA	Kitikmeot Inuit Association
km	kilometre
km <sup>2</sup>	square kilometre
L <sub>peak</sub>	peak sound overpressure level
LSA	Local Study Area
m	metre
m/s	metre per second
m <sup>2</sup>	square metre
m <sup>3</sup>	cubic metre
mg/L	milligram per litre
Mine, the	Hope Bay Mine
Miramar	Miramar Mining Corporation
MOU	Memorandum of Understanding

N	north
NE	northeast
NIRB	Nunavut Impact Review Board
NW	northwest
PDA	Project Development Area
PRISM	Program for Regional and International Shorebird Monitoring
Program, the	Wildlife Mitigation and Monitoring Program
Report, the	Wildlife Mitigation and Monitoring Plan Compliance Report
RSA	Regional Study Area
SARA	<i>Species at Risk Act</i>
SOP	standard operating procedure
SW	southwest
TEM	Terrestrial Ecosystem Mapping
TIA	Tailings Impoundment Area
TLR	Tail Lake Road
TMAC Resources	TMAC Resources Inc.
UD	utilization distribution
UTM	Universal Transverse Mercator
VEC	valued ecosystem component
WMMP	Wildlife Mitigation and Monitoring Plan
WRT	Wildlife Response Team
ZOI	Zone of Influence

## GLOSSARY

Committee on the Status of Endangered Wildlife in Canada (COSEWIC)	A federal committee of experts that assesses and designates the level of threat to wildlife and vegetation species in Canada.
Doris Project Certificate No. 003	Doris North Gold Mine Project Certificate Nunavut Impact Review Board No. 003; issued 15 September 2006 and amended 11 April 2013 and 23 September 2016.
Environment Personnel	Onsite environment technicians, wildlife biologists, and environment contractors.
Framework Agreement	Framework Agreement between the Kitikmeot Inuit Association and Agnico Eagle.
Hectare (ha)	10,000 m <sup>2</sup> or 0.01 km <sup>2</sup> or 2.47 acres.
Home Range	The area used by a wildlife species for living and moving. Home ranges can represent annual ranges (e.g., for animals, such as caribou and grizzly bear) or seasonal ranges (e.g., for birds).
Hope Bay Mine (the Mine)	The Hope Bay Mine includes the Doris North Project and the Phase 2 expansion of Madrid and Boston.
Local Study Area (LSA)	The permitted Madrid-Boston footprint of the Mine plus a buffer averaging 1,000 m radius around infrastructure and roads.
Migration	The regular seasonal or daily movement of animal populations to and from different areas, often considerable distances apart. Migration often occurs in corridors between preferred habitat types.
<i>Migratory Birds Convention Act</i> (1994)	<i>Migratory Birds Convention Act</i> (1994) is a law that protects migratory birds, their eggs, and their nests from harm or destruction through prohibitions and regulations implemented by Environment and Climate Change Canada.
Phase 2 Project	Phase 2 development of the Madrid and Boston deposits.
PRISM	Program for Regional and International Shorebird Monitoring. Used to monitor Arctic shorebird populations.
Program, the	The Wildlife Mitigation and Monitoring Program. Refers to the current WMMP, the monitoring that occurs, and the associated compliance report for any given year.
Project Certificate No. 009	Phase 2 Hope Bay Belt Project Certificate Nunavut Impact Review Board No. 009; issued 18 November 2018.
Project Development Area (PDA)	The permitted Madrid-Boston footprint of the Mine plus a buffer averaging a 250 m radius around infrastructure and a 100 m radius around roads.
Raptor	Birds of prey, including hawks, eagles, falcons, and owls. Common raven is considered a functional raptor based on similar nesting preferences to other true raptor species in the Arctic.
Regional Study Area (RSA)	This is the largest study area around the Madrid-Boston permitted infrastructure. The wildlife RSA encompasses an area large enough to characterize potential effects to species that may come into contact with the Hope Bay Mine or Mine-related activities, approximately 30 km from Mine infrastructure.

Shorebird	Any bird that lives, breeds, or forages on or near the shores of coastal or inland waters; also known as waders of the order Charadriiformes, such as a sandpiper or a plover. It excludes gull species.
<i>Species at Risk Act</i> (SARA; 2002)	A Canadian federal statute that is designed to meet one of Canada's commitments under the International Convention on Biological Diversity. The goal of the Act is to protect endangered or threatened organisms and their habitats. It also manages species that are not yet threatened but whose existence or habitat is in jeopardy.
Tail Lake Road (TLR)	The access road to the TIA.
Tailings Impoundment Area (TIA)	A lake that has been dammed and is the location of the tailings deposition.
Upland Breeding Bird	Passerines (except for common raven, which is included as a functional raptor), shorebirds, and ptarmigan.
Wildlife Mitigation and Monitoring Plan (WMMP)	The official document that outlines the program to be conducted to mitigate and monitor wildlife for the Mine.
Waterbird	Umbrella term used to encompass all birds that exclusively use water habitat for foraging, breeding, or staging during the year.
Wildlife Study Area	Wildlife Mitigation and Monitoring Program Study Area.

# 1. INTRODUCTION

The Hope Bay Mine (the Mine) is a gold mining development in the West Kitikmeot region of mainland Nunavut. The Mine property is approximately 153 kilometres (km) southwest of Cambridge Bay on the southern shore of Melville Sound. The property contains a greenstone belt that runs 80 km in a north–south direction, varying between 7 and 20 km in width. Agnico Eagle Mines Limited (Agnico Eagle) operates the Mine.

The Mine operates under Project Certificate No. 009 issued by the Nunavut Impact Review Board (NIRB), which requires completion of an annual Wildlife Mitigation and Monitoring Compliance Program (the Program). The Wildlife Mitigation and Monitoring Plan (WMMP) by Agnico Eagle (2025) specifies the activities to be undertaken during the Program based on Mine development phases. Since February 2022, the Mine has been in Care and Maintenance.

Agnico Eagle regularly discusses the WMMP with the Inuit Environmental Advisory Committee (IEAC) and circulates the WMMP to the Kitikmeot Inuit Association (KitIA) and various stakeholders for discussion. This document, the WMMP Compliance Report (the Report), summarizes the results of the Program.

Supplementary data and information is provided in Appendices A through U.

## 1.1 MINE REQUIREMENTS AND MONITORING OBJECTIVES

### 1.1.1 MINE WILDLIFE MITIGATION AND MONITORING PLAN REQUIREMENTS

The wildlife mitigation and monitoring requirements for the Mine are set out in the Doris Project Certificate No. 003 (Nunavut Impact Review Board [NIRB] 2006, 2013, 2016), the Madrid-Boston Project Certificate No. 009 (NIRB 2018), the *Framework Agreement* (2015) with the KitIA, as well as commitments made during the review of the Madrid-Boston Project Final Environmental Impact Statement (Madrid-Boston Final Environmental Impact Statement [FEIS]; TMAC Resources Inc. [TMAC Resources] 2017).

The WMMP is designed to monitor the predictions regarding Mine-related effects on wildlife valued ecosystem components (VECs; TMAC Resources 2017). Seven terrestrial wildlife VECs, including caribou (*Rangifer tarandus*), muskox (*Ovibos moschatus*), grizzly bear (*Ursus arctos*), wolverine (*Gulo gulo*), upland breeding birds, waterbirds, and raptors were identified. The Madrid-Boston FEIS predicted the following five residual effects of the Mine on wildlife VECs, none of which were predicted to be significant and all were predicted to have negligible or low magnitude (Table 1.1-1):

1. Habitat loss
2. Disturbance
3. Disruption of movement
4. Attraction to the Mine
5. Direct mortality

**TABLE 1.1-1 MAGNITUDE OF MADRID-BOSTON FINAL ENVIRONMENTAL IMPACT STATEMENT  
RESIDUAL IMPACT PREDICTIONS**

<b>VEC</b>	<b>Habitat Loss</b>	<b>Disturbance</b>	<b>Disruption of Movement</b>	<b>Attraction</b>	<b>Direct Mortality</b>
Caribou	Negligible	Low	Low	NA <sup>a</sup>	NA <sup>a</sup>
Muskox	Low	Low	Low	NA <sup>a</sup>	NA <sup>a</sup>
Grizzly Bear	Negligible	Not residual	Low	Low	NA <sup>a</sup>
Wolverine	Negligible	Not residual	Low	Low	NA <sup>a</sup>
Upland Breeding Birds	Low	Negligible	NA <sup>a</sup>	NA <sup>a</sup>	Low
Waterbirds	Low	Negligible	NA <sup>a</sup>	NA <sup>a</sup>	Low
Raptors	Low	Low	NA <sup>a</sup>	NA <sup>a</sup>	Low
Marine Mammals	NA <sup>a</sup>	NA <sup>a</sup>	NA <sup>a</sup>	NA <sup>a</sup>	NA <sup>a</sup>
Rare Plants	Low	NA <sup>b</sup>	NA <sup>b</sup>	NA <sup>b</sup>	NA <sup>b</sup>

Notes:

NA = not applicable; VEC = valued ecosystem component

<sup>a</sup> Not applicable as effect was not considered a residual effect on terrestrial and/or marine wildlife.

<sup>b</sup> Not applicable effect on plants.

This Report describes the results of the monitoring activities associated with the predictions and VECs listed in Table 1.1-1, including:

- Habitat loss due to the Mine (Section 2);
- Disturbance and disruption of movement from traffic, helicopter and fixed-wing aircraft and noise monitoring to confirm estimates used in the Madrid-Boston FEIS (Section 2);
- VEC-specific monitoring (Section 3); and
- Attraction and direct mortality: wildlife use of the Mine site, including any interactions, incidents, and mortalities (Section 3).

This Report also describes actions completed to guide adaptive management, including preclearing surveys (Section 2.6) and incidental wildlife observations (within VEC subsections in Section 3), which provide insight to wildlife use of the Mine areas and enable timely and relevant management decisions.

The annual compliance reports for the Mine are provided to the NIRB for review and comments. The WMMP is updated as needed during the life of the Mine, in part based on these review comments, which is then reflected in this Program.

### 1.1.2 INCLUSION OF INUIT QAUAJIMAJATUQANGIT

Agnico Eagle is committed to considering and incorporating Inuit Qauajimajatuqangit, or Inuit traditional knowledge, in all stages of the WMMP, including identification of mitigation measures, monitoring of study design, data collection, and follow-up programs. Agnico Eagle includes Inuit Qauajimajatuqangit through:

- **Feedback from the IEAC:** The IEAC was formed under the Mine's Inuit Impact and Benefit Agreement with the KIA. The IEAC is comprised of Inuit who are Elders and/or active land users with extensive knowledge of wildlife and the environment, and with experience in the Hope Bay study area. Typically, two meetings are held annually with the IEAC to review existing and proposed mitigation and monitoring for wildlife, describe monitoring results to date, discuss adaptive management for wildlife and fish, and gain Inuit perspectives and local knowledge on the Mine site.
- **Workshops with Elders:** A series of workshops was held with Elders and harvesters familiar with the Mine area prior to the Madrid-Boston FEIS application to review and support the Mine's caribou mitigation measures.
- **Inuit Qauajimajatuqangit:** The Inuit Traditional Knowledge report (Banci and Spicker 2016) was reviewed, and information regarding trends in VEC species or group populations has been included in Sections 3.4 to 3.13 of this Report.
- **Review Comments:** The KIA presents perspectives of Inuit and scientific review when they comment on wildlife mitigation and monitoring plans and reports and Madrid-Boston FEIS documents, as well as during their regular site visits. The WMMP and the Report are circulated to the KIA and IEAC for review and comment. Examples of where their input has been incorporated include the construction and monitoring of road crossing structures on the Doris-Windy All-Weather Road (AWR), using incinerators for food waste management to mitigate the attraction of bears, and getting assistance from land users to select the locations for site monitoring cameras.

### 1.1.3 PROGRAM AUDIT PROCESS

Project Certificate No. 009 Term and Condition 19 requires an audit process to identify updates that may be required for the WMMP (NIRB 2018). Agnico Eagle fulfills this requirement through the submission of annual reports and updated management actions to regulators and the IEAC, as well as through consultation and discussion at regular meetings with the IEAC and KIA. In 2025, Agnico Eagle held two IEAC meetings with relevant review as part of the audit process. The specific engagement for this audit process in 2025, the feedback provided, and the updates to the WMMP are included in Table 1.1-2.

## 1.2 PROGRAM COMPONENTS

The WMMP (Agnico Eagle 2025) identifies the monitoring and mitigation programs applicable to the Mine.

**TABLE 1.1-2 WILDLIFE MITIGATION AND MONITORING PLAN PROGRAM AUDIT PROCESS RECORDS, 2025**

<b>Audit Process</b>	<b>Parties Included</b>	<b>Program Feedback</b>	<b>Program Updates</b>
IEAC Meeting June 2025	IEAC, KIA	No feedback relevant to the WMMP or the Report.	No program update is required.
IEAC Meeting December 2025	IEAC	No feedback relevant to the WMMP or the Report.	No program update is required.

Notes:

IEAC = Inuit Environment Advisory Committee; KIA = Kitikmeot Inuit Association; Report = WMMP Compliance Report; WMMP = Wildlife Mitigation and Monitoring Plan

Care and Maintenance status remained in effect for all developments (Doris, Madrid, and Boston sites) in 2025. Table 1.2-1 outlines the WMMP requirements relevant to the Mine in Care and Maintenance in 2025 and the associated Report section in which they are described.

**TABLE 1.2-1 WILDLIFE MONITORING, 2025**

<b>Monitoring Objective and Method</b>	<b>Relevant Report Section</b>
<b>Infrastructure Development and Activities</b>	
a. Habitat loss	Section 2.1
b. Traffic monitoring	Section 2.2
c. Helicopter and fixed-wing aircraft monitoring	Section 2.3
e. Noise monitoring	Section 2.4
f. Construction management	Section 2.5
<b>VECs and Other Species Monitoring and Mitigation</b>	
a. Monitoring methods and results common across VECs	Section 3.2 and 3.3
b. Caribou	Section 3.4
c. Muskox	Section 3.5
d. Grizzly bear	Section 3.6
e. Wolverine	Section 3.7
g. Upland breeding birds	Section 3.8
h. Waterbirds	Section 3.9
i. Raptors	Section 3.10
j. Avian migration stand watch surveys	Section 3.11
j. Marine mammals	Section 3.12
k. Plants	Section 3.13

Note:

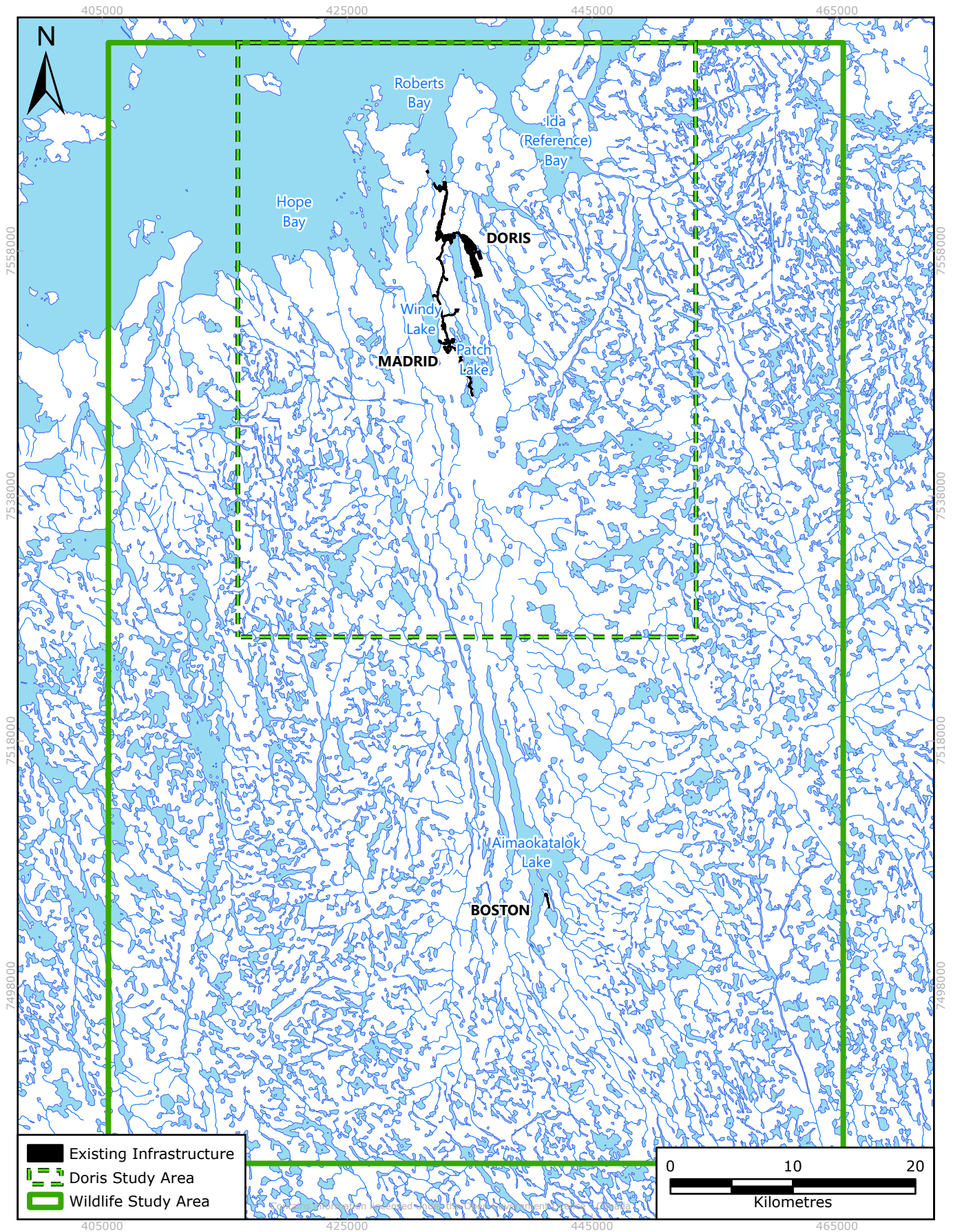
VEC = valued ecosystem component

In 2025, a new program component was executed—fall avian migration stand watch surveys were completed in the Doris and Madrid areas in keeping with Agnico Eagle’s commitment to carry out these surveys prior to construction of the windfarm (NIRB Certificate 009, Commitment 7). The objectives of the migration surveys are to assess which birds are migrating through the area and how high they are flying—to determine if there is a potential for direct interactions with wind turbines. The methods and initial results of the surveys are presented in Section 3.11. Additional avian migration stand watch surveys and data analyses will be undertaken in 2026.

### 1.3 PROGRAM STUDY AREA

The 2025 Wildlife Study Area (the Study Area) used a similar area as the Madrid-Boston Project for its Regional Study Area (RSA; Figure 1.3-1), with a few slight extensions to the Study Area in order to encompass VECs, particularly marine mammals in Roberts Bay. The Doris Study Area used in previous years is also included on Figure 1.3-1 for comparative purposes. The Madrid-Boston RSA is provided on Figure 2.1-1 (in Section 2) for comparison.

FIGURE 1.3-1 2025 WILDLIFE STUDY AREA



## 2. HABITAT LOSS AND SITE ACTIVITY MONITORING

### 2.1 HABITAT LOSS

Direct loss of wildlife habitat may occur through site clearing, infrastructure construction, and facility expansion. The amount of direct habitat loss due to the development and production phases of the Mine has been monitored annually since 2006. There were changes to the Mine footprint in 2025; therefore, habitat loss was calculated and evaluated against the Madrid-Boston FEIS predictions for loss of suitable habitat for VEC species or groups (Section 2.1.3).

#### 2.1.1 FINAL ENVIRONMENTAL IMPACT STATEMENT PREDICTIONS

In the Madrid-Boston FEIS (TMAC Resources 2017), wildlife habitat was predicted to be lost within the Project Development Area (PDA), which extends 500 to 1,500 metres (m) surrounding planned infrastructure. This extent of the PDA allowed future development and operational flexibility. Infrastructure construction was predicted to result in the reduction of existing wildlife habitat. Habitat loss was predicted to not be a significant residual effect, and the magnitude was classified as negligible for caribou, grizzly bear, and wolverine, and low for muskox, upland breeding birds, waterbirds, and raptors. The geographic extent of habitat loss was the PDA for all wildlife VECs.

Habitat loss for rare plants was not assessed directly in the Madrid-Boston FEIS (TMAC Resources 2017); instead, it was evaluated by determining the loss of special landscape features. Special landscape features include riparian ecosystems; rare or sensitive wetlands; ecosystems that can contain eskers, cliffs, bedrock lichen, and outcrop ecosystems; and beaches and marine intertidal areas. Loss of special landscape features was predicted to be an effect with low magnitude that is not significant and at the geographic scale of the PDA.

#### 2.1.2 METHODS

Habitat loss is evaluated as the direct loss of vegetation communities due to the Mine footprint. Habitat loss is evaluated annually and is compared to the amount of habitat available within the relevant study area (Figure 2.1-1), using Ecological Land Classification (ELC) for the Slave Geological Province and Terrestrial Ecosystem Mapping (TEM) ecosystem units.

To evaluate the loss of suitable habitat for VEC species or groups, the loss is expressed as a proportion of available suitable habitat within the relevant study area as determined in the Madrid-Boston FEIS (TMAC Resources 2017). Any loss of special landscape features designated as potential rare plant habitat (i.e., riparian areas, rare wetlands, eskers, cliffs, or marine beaches) is reported directly as number of hectares (ha) lost.

#### 2.1.3 RESULTS AND DISCUSSION

The total habitat lost in 2025 was 33.59 ha, adding to the approximately 159.67 ha previously lost to construction (Figure 2.1-2). Collectively, the Mine footprint covers 193.26 ha to date, which is 4.0 percent (%) of the assessed PDA in the Madrid-Boston FEIS (4,706 ha, Boston PDA inclusive; TMAC Resources 2017).

FIGURE 2.1-1 WILDLIFE REGIONAL AND LOCAL STUDY AREAS FOR HOPE BAY MINE

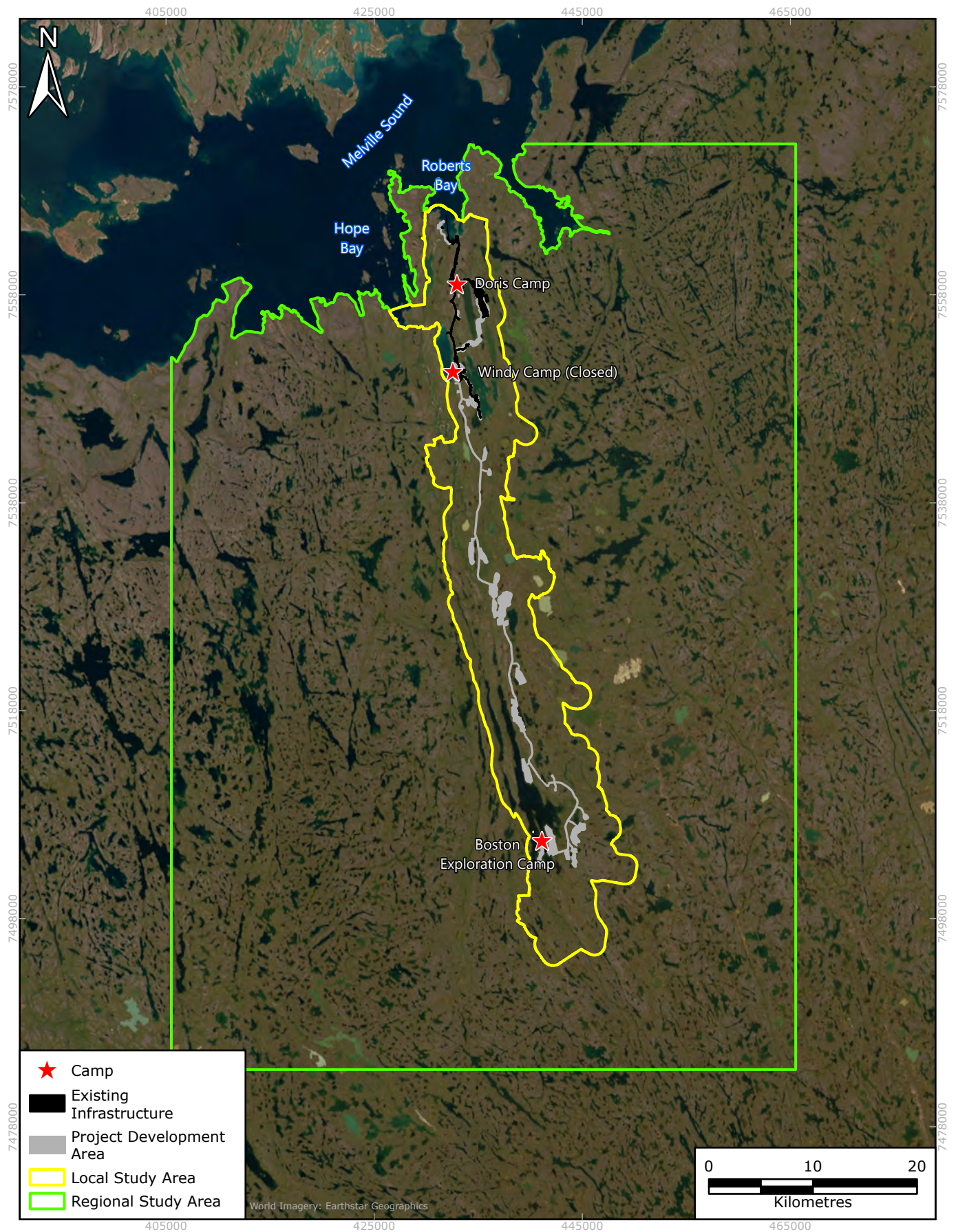
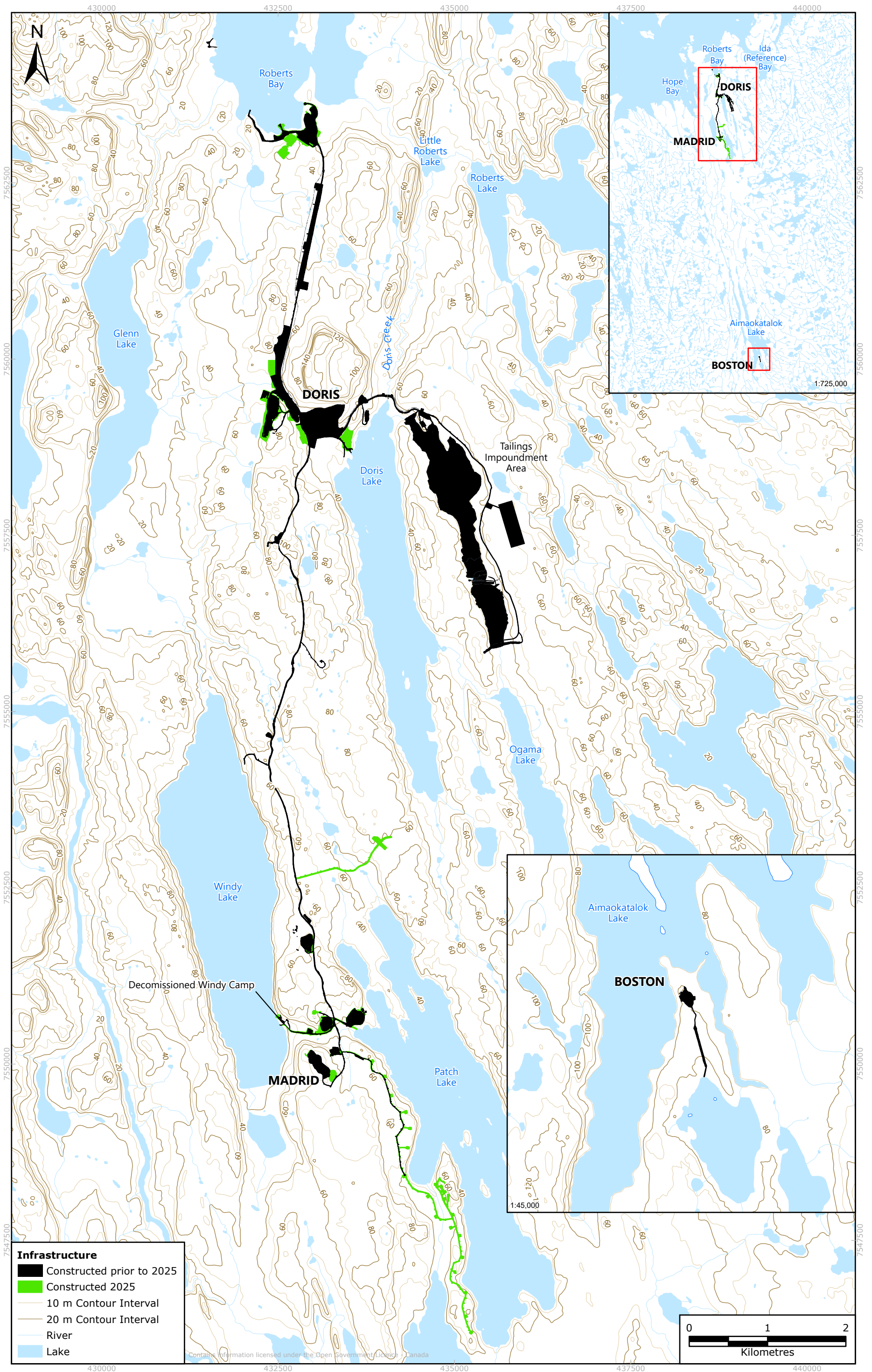


FIGURE 2.1-2 INFRASTRUCTURE DEVELOPMENT OF HOPE BAY MINE, AS OF 2025



Among each of the mammalian VECs, less than 0.1% of available suitable habitat within the RSA had been lost due to the Mine toward the end of 2025. The exception to this was wolverine, for which loss was calculated relative to the RSA and at 0.11% (Table 2.1-1). With respect to the proportion of suitable habitat for upland bird VECs, for which habitat loss is evaluated relative to the Local Study Area (LSA), habitat loss has accounted for about 0.4% of suitable habitat to the end of 2025 (Table 2.1-1). No loss of special landscape features designated as potential rare plant habitat occurred.

The magnitude of predicted habitat loss was classified as negligible for caribou, grizzly bear, and wolverine, and low for muskox, upland breeding birds, waterbirds, and raptors (TMAC Resources 2017). The predictions of the Madrid-Boston FEIS (TMAC Resources 2017) remain valid, with respect to the constructed Mine footprint.

## 2.2 TRAFFIC MONITORING

Road traffic is monitored as part of the Madrid-Boston FEIS commitments. Traffic was evaluated in the Madrid-Boston FEIS for its potential to pose a hazard to wildlife crossing roads or cause disturbance to wildlife due to noise. Mitigation includes conservative speed limits, road signage, and employee training for wildlife avoidance. The WMMP also includes a Road Management Plan, which describes road safety, design, and monitoring practices (Agnico Eagle 2025).

### 2.2.1 FINAL ENVIRONMENTAL IMPACT STATEMENT PREDICTIONS

Peak vehicle traffic between Mine areas (i.e., Roberts Bay, Doris, Madrid, Windy Lake, and [in future years] Boston) was predicted in the Madrid-Boston FEIS (TMAC Resources 2017) and is summarized in Table 2.2-1. Estimates of Peak Years were based on planned Mine development, starting in 2019. However, since the Mine is now in Care and Maintenance, with advanced exploration activities, current predictions of peak vehicle traffic are no longer aligned with the Madrid-Boston FEIS predictions that assumed ongoing construction and operation of Madrid and Boston.

Traffic levels are reported in accordance with Project Certificate No. 009 Commitment 20 and the Final Hearing Commitment 52 (NIRB 2018).

### 2.2.2 METHODS

In 2025, daily average traffic volumes were calculated using data collected from 1 September 2024 to 31 August 2025 from two wildlife cameras stationed along transit routes (see Section 3.2 for camera placement information and methods). Total daily traffic volume at camera 18 (Roberts Bay to Doris) and camera 35 (Doris to Madrid North) was determined using motion-triggered photos. However, data was only collected for camera 18 for 3 months (September 2024 and July to August 2025) and camera 35 for 5 months (September to November 2024 and July to August 2025) due to problems with camera batteries within the monitoring period. The traffic logs from this monitoring period were summarized using the available data from each day of the month for the maximum, minimum, and average monthly traffic levels between each transport area: Roberts Bay to Doris, and Doris to Madrid North.

TABLE 2.1-1 HABITAT LOSS BY VALUED ECOLOGICAL COMPONENT AT HOPE BAY MINE THROUGH 2025

VEC	Habitat Range/Type	Total Habitat Loss		LSA (56,340 ha)			RSA (491,824 ha)		
		Predicted Loss in the PDA (ha)	Actual Loss to 2025 (ha)	Suitable <sup>a</sup> Area (ha)	Predicted Loss (%)	Actual Loss to 2025 (%)	Suitable <sup>a</sup> Area (ha)	Predicted Loss (%)	Actual Loss to 2025 (%)
Caribou	Summer	3,849	180.40	46,835	8	0.39	420,608	0.9	< 0.1
	Fall	1,117	23.40	14,332	7.6	0.16	302,692	0.4	< 0.1
	Winter	1,915	106.06	19,782	9.5	0.54	227,934	0.8	< 0.1
Grizzly Bear	Spring	1,400	67.62	20,287	6.9	0.33	272,214	0.5	< 0.1
	Summer	3,287	131.80	37,824	8.5	0.35	221,903	1.4	< 0.1
	Fall	3,425	142.76	40,256	8.3	0.35	224,335	1.5	< 0.1
	Denning	476	27.89	9,132.20	5.1	0.31	86,730.70	0.5	< 0.1
Muskox	Winter/Spring	3035	93.98	34,411	8.6	0.27	141,209	2.1	< 0.1
	Summer/Fall	3,752	157.08	45,657	8	0.34	328,236	1.1	< 0.1
Wolverine	Denning	968	193.26	10,667	8.6	1.81	173,360	0.5	0.11
Short-Eared Owl	Spring Nesting	3,607	156.23	40,279	8.7	0.39	198,843	1.8	< 0.1
	Summer Brooding	3,719	179.31	42,411	8.5	0.42	200,975	1.8	< 0.1
Waterbirds	Waterbodies	104	0.65	9,757	1.1	0.01	99,612	0.1	< 0.1
	Wetlands	393	33.90	10,907	5.7	0.31	58,370	1.1	< 0.1
	Terrestrial Habitat	1372	85.89	18,812	7.1	0.46	185,952	0.7	< 0.1
Upland Birds	Dry Upland	1,905	76.30	19,901	9.3	0.38	280,133	0.7	< 0.1
	Moist/Wet Lowland	2,404	113.33	26,524	8.8	0.43	183,326	1.3	< 0.1

## Notes:

< = less than; % = percent; FEIS = Final Environmental Impact Statement; ha = hectare; LSA = Local Study Area; NA = not applicable; PDA = Project Development Area; RSA = Regional Study Area; TEM = Terrestrial Ecosystem Mapping; VEC = valued ecosystem component

<sup>a</sup> Habitat loss models for caribou, grizzly bear, and muskox include high and moderate quality habitat assessed in the Madrid-Boston FEIS. All other VECs are modelled directly for suitable versus unsuitable habitat.

TABLE 2.2-1 PREDICTED MAXIMUM MINE VEHICLE TRAFFIC IN YEARS 1 TO 5

Transport Areas <sup>a</sup>	Peak Years <sup>b</sup>	Number of Daily Return Trips	Transport Categories	Vehicle Type
Roberts Bay to Doris / Madrid North (5.2 km)	Year 1–Year 13 (2019–2030)	10	Fuel, supplies, service vehicles	60 m <sup>3</sup> tanker, flatbed trucks, miscellaneous vehicles
Doris to Madrid North (9.5 km)	Year 1–Year 13 (2019–2030)	78	Supplies, explosives, employees, service vehicles	Flatbed trucks, 40-person bus, miscellaneous vehicles
Windy Lake to Doris	Year 1–Year 13 (2019–2030)	8	Transport of water	20 m <sup>3</sup> tanker
Roberts Bay to Boston <sup>c</sup> (57.8 km)	Year 4–Year 12 (2022–2023)	2	Fuel, supplies	60 m <sup>3</sup> tanker, flatbed trucks
Boston to Doris <sup>c</sup> (53 km)	Year 4–Year 13 (2022–2024)	31	Hauling, fuel, supplies, service vehicles	55-ton haul truck, 60 m <sup>3</sup> tanker, flatbed trucks, miscellaneous vehicles

Notes:

FEIS = Final Environmental Impact Statement; m<sup>3</sup> = cubic metre; TMAC Resources = TMAC Resources Inc.

<sup>a</sup> Multiply return trips by two for the number of transits. This volume was taken from the Madrid-Boston FEIS (Table 4.5-1, Section 4.5, Volume 3; TMAC Resources 2017).

<sup>b</sup> Peak years and rates are from the Madrid-Boston FEIS and do not represent current Mine progress.

<sup>c</sup> Indicates portions of road that have not been constructed, as of the current reporting year.

### 2.2.3 RESULTS AND DISCUSSION

All 3 months with available data from camera 18 were above predictions from the Madrid-Boston FEIS for the daily average transits from Roberts Bay to Doris (Table 2.2-2). Traffic between Roberts Bay and Doris was above the predicted levels, with an overall average of 39.1 daily transits, compared to a predicted peak of 20 transits (Table 2.2-2). This greater-than-predicted traffic volume did not account for the arrival of the sealift to the Mine that occurs during this time period.

TABLE 2.2-2 VEHICLE TRAFFIC CALCULATED FROM ROBERTS BAY TO DORIS CAMP (CAMERA 18), SEPTEMBER 2024, JULY 2025, AND AUGUST 2025

Month	Predicted Peak Daily Transits <sup>a</sup>	Daily Average	Daily Minimum	Daily Maximum
September 2024	20	35.2	10	73
July 2025	20	47.8	16	117
August 2025	20	34.4	6	72

Note:

<sup>a</sup> The maximum predicted daily transits were calculated by multiplying the maximum daily return trips by two.

For the 5 months with available data for camera 35, daily average transits from Doris Camp to Madrid North were below predictions from the Madrid-Boston FEIS for all months except for August 2025 (Table 2.2-3). During the month of August, the predicted traffic volumes were not greater than 25%. Traffic between Doris and Madrid North was below the predicted levels in the data collected, with an overall average of 94.1 daily transits, compared to a predicted peak of 172 transits (Table 2.2-3).

**TABLE 2.2-3 VEHICLE TRAFFIC CALCULATED FROM DORIS CAMP TO MADRID NORTH (CAMERA 35), SEPTEMBER 2024 TO NOVEMBER 2024, JULY 2025, AND AUGUST 2025**

Month	Predicted Peak Daily Transits <sup>a,b</sup>	Daily Average	Daily Minimum	Daily Maximum
September 2024	172	42.3	9	85
October 2024	172	70.6	22	175
November 2024	172	66.3	3	127
July 2025	172	92.6	38	239
August 2025	172	198.4	52	320

Notes:

<sup>a</sup> The maximum predicted daily transits were calculated by multiplying the maximum daily return trips by two.

<sup>b</sup> Values are from Table 2.2-1 and include traffic from Doris to Madrid North, and Windy Lake to Doris.

Camera data were not available along the Roberts Bay to Doris Camp route (camera 18) between October 2024 to June 2025 and the Doris to Madrid route (camera 35) between December 2024 and June 2025, due to batteries running out of charge in both cameras. As a result, Agnico Eagle began implementation of a more robust camera servicing program in November 2025, which includes bi-weekly servicing and cleaning of the cameras.

In 2025, an additional analysis of vehicle composition (i.e., lightweight vehicles and heavy equipment) was completed for traffic monitoring using the data for Roberts Bay to Doris Camp and data from Doris Camp to Madrid North (Tables 2.2-4 and 2.2-5).

**TABLE 2.2-4 LIGHTWEIGHT AND HEAVY EQUIPMENT TRAFFIC CALCULATED FROM ROBERTS BAY TO DORIS CAMP (CAMERA 18), SEPTEMBER 2024 TO AUGUST 2025**

Month	Lightweight Vehicles			Heavy Equipment		
	Daily Average	Daily Minimum	Daily Maximum	Daily Average	Daily Minimum	Daily Maximum
September 2024	31.1	9	72	4.9	1	11
July 2025	14.3	2	34	33.4	7	91
August 2025	26.1	1	67	9.6	1	47

**TABLE 2.2-5 LIGHTWEIGHT AND HEAVY EQUIPMENT TRAFFIC CALCULATED FROM DORIS CAMP TO MADRID NORTH (CAMERA 35), SEPTEMBER 2024 TO AUGUST 2025**

Month	Lightweight Vehicles			Heavy Equipment		
	Daily Average	Daily Minimum	Daily Maximum	Daily Average	Daily Minimum	Daily Maximum
September 2024	32.7	4	52	10.9	2	60
October 2024	37.7	11	77	34.1	2	106
November 2024	35.7	4	60	36.6	3	82
July 2025	45.6	6	75	46.9	7	175
August 2025	56.8	30	92	141.6	11	252

Final Hearing Commitment 52 establishes the need to compare current traffic levels to predictions in the Madrid-Boston FEIS and to enhance wildlife protection measures if levels are exceeded by greater than 25% in two consecutive monitoring periods. Additional traffic is occurring during an advanced exploration program while the Mine remains in Care and Maintenance in 2025, and as a result, the traffic levels do not align with the volume originally predicted in the Madrid-Boston FEIS. While the traffic volumes were above the predicted seasonal or annual average for Camera 18, this time period coincides with the time when very few caribou are at the Mine, resulting in no need for further protection measures. When the traffic camera dataset improves following the implementation of the robust camera servicing program in November 2025, a full comparison of the data to the commitment will be completed. Additional protection measures will be considered in following years if the data shows the traffic levels are above the predicted levels for consecutive monitoring periods.

## 2.3 HELICOPTER AND FIXED-WING AIRCRAFT MONITORING

Fixed-wing aircraft currently operate from the Hope Bay airstrip, and helicopters operate from both the Doris and Boston areas, making trips between the two areas and taking supplies (e.g., drilling gear for exploration activities) and crews to other areas. Fixed-wing aircraft support crew and supply movement in and out of Hope Bay. Aircraft noise can pose a disturbance risk to wildlife (Manci et al. 1988). The level of disturbance depends on both the frequency and altitude of aircraft (e.g., more noise during takeoff and landing).

### 2.3.1 FINAL ENVIRONMENTAL IMPACT STATEMENT PREDICTIONS

#### 2.3.1.1 HELICOPTER FLIGHTS

In the Madrid-Boston FEIS, helicopter flight traffic levels were modelled for the Construction and Operations phases, according to predicted frequency of routes, noise levels based on altitude, and flight durations (TMAC Resources 2017). In accordance with Project Certificate No. 009 Commitment GN-45 (NIRB 2018), helicopter traffic is monitored and reported annually. In the FEIS, helicopter flight frequencies were predicted and modelled by area, and travel between the Doris and Boston helipads was predicted at eight daily one-way trips (four round trips), as well as eight daily trips of general activity in the area of both the Doris and Boston helipads individually (i.e., four round trips

each). An additional scenario beyond this basic scenario predicted up to five additional round trips daily to service drilling sites from either the Doris, Boston, or Windy helipad (TMAC Resources 2017). Since the Mine is now in Care and Maintenance, with advanced exploration activities, current predictions of helicopter activity are no longer aligned with the Madrid-Boston FEIS predictions that assumed ongoing construction and operation of Madrid and Boston.

### 2.3.1.2 FIXED-WING AIRCRAFT FLIGHTS

The wildlife chapter of the Madrid-Boston FEIS (TMAC Resources 2017, Section 9.8.3.2, Chapter 9, Volume 4) evaluated the potential effects of noise from fixed-wing aircraft on caribou using a standard noise model. The FEIS estimated if a 737-200 and a Dash 8 took off and landed at both Doris and Boston airstrips in both directions for four takeoffs and four landings per day at each airstrip. The predicted Zone of Influence (ZOI) for other effects of the Mine on caribou was 4 kilometres (km) from infrastructure, which is wider than the estimated effects of aircraft noise.

## 2.3.2 METHODS

### 2.3.2.1 HELICOPTER FLIGHTS

Helicopter flight logs tracked general flight locations within the Mine area, with each log corresponding to a one-way trip from either the Doris or the Boston area, or between Doris and Boston. No helipad is currently in use at Windy Camp. Helicopter data were analyzed from machines associated with site maintenance, monitoring programs, and exploration support. The helicopter flight logs were summarized as number of flights per day, within and between the Doris and Boston areas, during the period that helicopters were present at the site.

### 2.3.2.2 FIXED-WING AIRCRAFT FLIGHTS

Fixed-wing aircraft flights were summarized by the number of takeoffs and landings each day by month. Values were summarized for 2025 and compared to the predicted levels in the Madrid-Boston FEIS. Fixed-wing aircraft have standard flight altitudes and are only expected to pose a potential noise disturbance to wildlife during takeoff and landing. Therefore, this Report does not include average or daily flight elevations.

## 2.3.3 RESULTS AND DISCUSSION

### 2.3.3.1 HELICOPTER FLIGHTS

In 2025, a total of 1,385 one-way helicopter trips were logged around the Mine. Helicopter activity occurred from 16 May through 1 October 2025, spanning 139 helicopter monitoring days. Helicopter trips between Boston and Doris (an average of 0.2 daily trips) and trips occurring around Boston (an average of 0.1 daily trips) remained below the maximum daily frequency of eight trips predicted in the Madrid-Boston FEIS for both areas (Table 2.3-1). In contrast, helicopter use around Doris was above the Madrid-Boston FEIS prediction, ranging from 1 to 28 daily trips with an average of 9.7 trips per day (Table 2.3-1). The additional helicopter flights are attributed to the Mine undertaking an advanced exploration program while remaining in Care and Maintenance in 2025. As a result, helicopter activity continues to not align with the number of helicopter flights originally predicted in the Madrid-Boston FEIS. Helicopter flight log details are in Appendix A.

TABLE 2.3-1 DAILY HELICOPTER TRIPS, 2025

Helipad	Daily Predicted Trips	Maximum Daily Trips	Minimum Daily Trips	Average Daily Trips
Doris	8	28	1	9.7
Boston	8	1	0	0.1
Between Doris and Boston	8	2	0	0.2

Wildlife cameras deployed throughout the Mine footprint monitored wildlife use between 1 September 2024 and 31 August 2025, and data from these cameras show that the highest number of caribou observation events occurred within 2 km of the Mine in July and August (Table 3.4-1, Section 3.4.3.2). As such, it does not appear that helicopters are deterring caribou from utilizing habitat in this area. Helicopter operators adhered to WMMP requirements to maintain a 300 metre (m) vertical and 600 m horizontal distance from caribou to reduce potential impacts during helicopter operation.

### 2.3.3.2 FIXED-WING AIRCRAFT FLIGHTS

Fixed-wing aircraft flights were active throughout 2025, with an overall frequency of 1.7 one-way flights (i.e., takeoff or landing) per day. Flight frequency ranged from 0 to 5 one-way flights per day (Table 2.3-2). Daily flights were around 41% of predicted levels in the Madrid-Boston FEIS (Table 2.3-2) and were therefore within predicted levels for the Mine. Fixed-Wing flight log details are in Appendix B.

TABLE 2.3-2 DAILY FIXED-WING AIRCRAFT TRAFFIC, 2025

Airstrip	Predicted Daily Trips <sup>a</sup>	Maximum Daily Trips	Minimum Daily Trips	Average Daily Trips
Doris	4	5	0	1.7
Boston	4	0	0	0

Notes:

FEIS = Final Environmental Impact Statement

<sup>a</sup> Maximum predicted daily takeoffs or landings, based on the Madrid-Boston FEIS. See Section 2.3.1 of this Report.

## 2.4 NOISE MONITORING

### 2.4.1 PURPOSE AND CONTEXT

Project Certificate No. 009 (Term and Condition 4) indicates that a Noise Abatement Monitoring Plan includes 1) measures to protect people, fish, and wildlife from mine noise, including quarry blasting; and 2) monitoring noise at least once during each phase of the Mine following quarry blasts to determine if noise levels remain within predicted levels.

### 2.4.2 METHODS

A standard operating procedure (SOP) for noise measurement of quarry blasts has been in development and testing since 2018. The current draft of this SOP is provided in Appendix C. The SOP includes methods for equipment setup, calibration, field documentation, and data handling. The SOP recommends completing monitoring during wind speeds of less than 5 metres per second (m/s) where feasible, recognizing that site conditions may not always allow this criterion to be met and that wind conditions can influence data interpretability. Monitoring was conducted using a SoundAdvisor™ Model 831C.

In 2025, blast noise monitoring data were compiled and reviewed as a screening-level line of evidence to support adaptive management of blasting-related mitigation measures and to maintain continuity with the historical dataset (including 2024). As in previous years, interpretation of individual events is constrained by ambient conditions (particularly wind) and practical field limitations, and results are therefore presented with appropriate caution regarding attribution of recorded peaks to blasting.

### 2.4.3 RESULTS AND DISCUSSION

In both 2024 and 2025, it was not possible to discern the quarry blasts from background wind noise in the noise monitoring program. At 2.8 km, the wind is so loud and the noise of the blast is so muted, that it was not possible to identify the blast in the recorded data.

For 2025, field notes for each monitoring event documented the time of blasting, and a screening review was completed comparing the documented blast time to instrument recordings (time-history plots and derived metrics) to assess whether defensible, repeatable “blast-related spikes” could be identified at or near the noted blast time. Despite the presence of blast times in the field notes, no consistent, defensible pattern was identified that would allow recorded peaks to reliably be attributed to the blast event across the dataset. Where time-history plots of these blasts do not show a clear, isolated “blast spike,” it is treated as an expected outcome under some field conditions rather than interpreted as evidence that blast noise was absent or that predicted levels were (or were not) achieved.

Field notes also indicate that in several instances, when wind was not reported as excessive, blasting was audible at the monitoring location but described only as “light” or “somewhat audible.” This type of observation is consistent with kilometre-scale monitoring, where blast sound may be perceptible to an observer, yet remain difficult to separate from ambient fluctuations in instrument records, particularly under variable meteorology and background conditions. Overall, the intent of reporting is to transparently describe what was measured, the conditions under which measurements were collected, and the key limitations affecting attribution of recorded peaks to blasting versus ambient sources.

### 2.4.4 DATA CONSIDERATIONS AND INTERPRETATION

Field noise monitoring at long offsets (e.g., kilometres from a blast) can be strongly influenced by meteorology and local ambient sources, particularly wind-induced microphone noise and wind-driven environmental sounds. The SOP identifies wind as a condition that can introduce low-frequency noise due to air movement over the windscreen and affect whether measured data

are representative of blast sound. Accordingly, the 2025 dataset is most appropriately interpreted as screening-level information to support program learning, method refinement, and comparison to historical conditions, rather than as event-by-event confirmation of predicted levels at 2.8 km.

This framing is consistent with the 2024 compliance report's conclusion that inconsistent results suggest that a local monitoring approach would be more effective for understanding potential impacts to caribou at the Mine. A local approach can emphasize conditions and observations that are within operational control (e.g., siting choices, documentation quality, timing alignment, and integration with wildlife prechecks) rather than relying on acoustic time-history plots alone to diagnose blast impacts at distance in all weather conditions.

## 2.4.5 RECOMMENDATIONS AND PATH FORWARD

The Madrid-Boston FEIS includes a proposed mitigation plan, which was based on published responses of ungulates at different levels of instantaneous noise. Instantaneous noises are sudden noises such as slamming car doors, clapping hands, or blasting, and are measured differently than continuous noises. The concept was to identify a noise threshold where caribou may be disturbed by the instantaneous noise of a blast and to identify the distance at which that noise attenuates below the reported noise level where ungulates react. This distance was calculated as 2.8 km for an overpressure level of 96 L<sub>peak</sub><sup>1</sup> Z-weighted decibel (dBZ). However, in real-world testing, the wind onsite is so loud, and the noise of quarry blasting so muted at 2.8 km, that the blast cannot be picked out of the background noise to evaluate if the 2.8 km should be increased or decreased.

In practice, the Environment Department delays quarry blasts if any caribou are visible, regardless of distance. Given the difficulty in trying to set a specific buffer based on noise measurements, it is proposed to update the WMMP to abandon the use of noise and distance buffers and simply continue to follow the existing management measure of delaying blasts if any caribou are observed. This management measure is more protective of caribou and dispenses with a time-consuming noise monitoring program and noise-based mitigation that has been proven impractical to monitor.

## 2.5 CONSTRUCTION MANAGEMENT

### 2.5.1 PURPOSE AND CONTEXT

The purpose of construction management is to decrease or eliminate risk of adverse impacts of construction activities on wildlife and wildlife habitat by providing a framework to make sure activities such as land clearing, blasting, and road building comply with environmental regulations and Mine-specific permit terms and conditions. For example, migratory birds, their nests, eggs, and young are protected from capture, hunting, killing, molestation, or harassment in Canada by the *Migratory Birds Convention Act*, 1994. As per the WMMP (Agnico Eagle 2025), vegetation clearing and ground disturbance activities related to construction that may disturb wildlife residences (nests and dens) were avoided during specified periods of the year. If avoidance during these time periods was not possible, preclearing surveys were completed to identify and buffer residences.

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<sup>1</sup> Peak sound overpressure level.

## 2.5.2 METHODS

Preclearing surveys followed protocols outlined in the Doris North Migratory Bird Preclearing Survey SOP and the WMMP (Agnico Eagle 2025). Nest preclearing surveys were completed for raptors, waterbirds, and upland birds from 15 May to 15 August, as required by the WMMP (Agnico Eagle 2025). Den preclearing surveys were completed for grizzly bear (1 October to 30 April), wolverine (1 February to 15 May), and wolf (*Canis lupus*; 1 May to 30 July), as required by the WMMP (Agnico Eagle 2025). Surveyors conducted ground transects within the area to be disturbed and observed wildlife residences. If a wildlife residence was found, the residence was protected with a buffer, as outlined in the appropriate SOP and/or WMMP (Agnico Eagle 2025).

## 2.5.3 RESULTS AND DISCUSSION

In 2025, 25 nest preclearing surveys were completed between 17 May and 13 August, and 15 den preclearing surveys were completed between 23 February and 3 April, and 5 October and 30 November 2025 (Table 2.5-1). Mine areas surveyed for wildlife residences included Patch 7, the Quarry AF area, the Tailings Impoundment Area (TIA), the Exploration Track, the Naartok Vent Raise area, the Diversion Berm, the Emulsion Pad, the Mill Reclaim area, the Transit Pad, the Fab Shop area, Sump 1, Roberts Bay Mooring Point, the Nuna Pad, and the Batch Plant / LRP Expansion area (Figure 2.1-2).

A total of eight nests were observed during preclearing surveys: one American robin (*Turdus migratorius*), one semipalmated plover (*Charadrius semipalmatus*), one sparrow sp., and five unknown species.

The American robin, semipalmated plover, and sparrow sp. nests were in the incubation stage when detected. A 40 m buffer was applied to the semipalmated plover nest, which was monitored regularly until the young successfully fledged. An unknown species nest was identified in Patch 7, but it contained no eggs or live birds. Though a buffer was not required, a 25 m buffer was applied as a precaution. The American robin nest did not require a buffer because it was located outside of the 30 m buffer of the proposed vegetation clearing / ground disturbance areas. The five unknown species nests were found empty, indicating they were likely old nests or had been depredated.

No dens were found during the den preclearing surveys.

TABLE 2.5-1 SUMMARY OF PRECLEARING SURVEYS COMPLETED IN 2025

Date	Survey Area	Start Time	End Time	Start Easting <sup>a</sup>	Start Northing <sup>a</sup>	End Easting <sup>a</sup>	End Northing <sup>a</sup>	Species	Residence Stage	Contents	Eastings <sup>a</sup>	Northing <sup>a</sup>	Buffer?
<b>Nest Surveys</b>													
17 May 2025	Patch 7	15:18	15:35	434819	7548144	434819	7548144	No nests found					
22 May 2025	Patch 7 Pad	10:20	11:00	434755	7548256	434755	7548256	No nests found					
27 May 2025	Patch 7	13:20	14:10	434903	7548008	434903	7548008	Songbird	Building	Empty	Not provided	Not provided	25 m
27 May 2025	Quarry AF	10:55	11:40	432565	7563154	432565	7563154	No nests found					
27 May 2025	TIA	8:15	8:40	435752	7556023	435752	7556023	Songbird/ Shorebird	Building	Empty	Not provided	Not provided	Not provided
								Songbird/ Shorebird	Building	Empty	Not provided	Not provided	Not provided
								Songbird/ Shorebird	Building	Empty	Not provided	Not provided	Not provided
2 Jun. 2025	Unknown	7:40	8:05	433695	7550781	433695	7550781	No nests found					
5 Jun. 2025	Quarry AF	13:00	13:30	432565	7563154	432565	7563154	No nests found					
6 Jun. 2025	Explo Track Pad	10:30	10:50	434949	7547679	434949	7547679	No nests found					
9 Jun. 2025	Windy TIA Road	13:40	14:10	Not provided	Not provided	Not provided	Not provided	No nests found					
14 Jun. 2025	Emulsion Pad South	8:00	8:25	433932	7553104	433947	7553120	No nests found					
17 Jun. 2025	Emulsion Pad North	10:15	10:45	433915	7553124	433915	7553124	No nests found					
19 Jun. 2025	Quarry AF Road	7:30	7:50	432562	7563142	432548	7563139	Sparrow sp.	Incubating	4 eggs	Not provided	Not provided	Not provided
21 Jun. 2025	Quarry AF Overburden	7:30	7:45	432640	7563040	432640	7563040	No nests found					
25 Jun. 2025	Mill Reclaim Area	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	American Robin	Incubating	3 nestlings	Not provided	Not provided	Not provided
26 Jun. 2025	Transit Pad	8:40	9:10	432713	7563102	432586	7563134	Semipalmated Plover	Incubating	4 eggs	Not provided	Not provided	40 m
26 Jun. 2025	Fab Shop Pad	17:05	17:30	432825	7559034	432825	7559034	No nests found					
30 Jun. 2025	Fab Shop Pad	17:30	17:55	432880	7558904	432880	7558904	No nests found					
4 Jul. 2025	Fab Shop Laydown	13:00	13:20	432870	7558955	432845	7558938	No nests found					
9 Jul. 2025	Quarry AF Transit Pad	10:55	11:15	432678	7563095	432678	7563095	No nests found					
15 Jul. 2025	Naartok Vent Raise Area	8:05	8:20	433682	7550810	433682	7550810	No nests found					
19 Jul. 2025	Sump 1	8:30	8:50	433374	7549899	433347	7549940	No nests found					
25 Jul. 2025	Naartok Vent Raise Area	8:12	8:33	433310	7550639	433310	7550639	Unknown	Building	Empty	433695	7550815	Not provided
6 Aug. 2025	Fab Shop Pad	17:01	17:37	432821	7559073	432928	7558825	No nests found					
9 Aug. 2025	Fab Shop Pad	17:30	17:45	432880	7558904	432880	7558904	No nests found					
13 Aug. 2025	Drill pad on Windy Road	9:50	10:01	433297	7550741	433297	7550741	No nests found					



Date	Survey Area	Start Time	End Time	Start Easting <sup>a</sup>	Start Northing <sup>a</sup>	End Easting <sup>a</sup>	End Northing <sup>a</sup>	Species	Residence Stage	Contents	Eastings <sup>a</sup>	Northing <sup>a</sup>	Buffer?
<b>Den Surveys</b>													
23 Feb. 2025	Explo Track	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
3 Mar. 2025	Geotechnical Drilling	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
28 Mar. 2025	Explo Track Phase 3	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
30 Mar. 2025	Explo Track Phase 3	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
2 Apr. 2025	Sump 1	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
3 Apr. 2025	Vent Raise Diversion Berm	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
10 Apr. 2025	TIA Road	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
10 Apr. 2025	Explo Track Phase 3	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
12 Apr. 2025	Rob's Bay Mooring Point	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
17 May 2025	Patch	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
5 Oct. 2025	Quarry 3 Drilling	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
5 Oct. 2025	Nuna Pad Extension	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
8 Oct. 2025	Batch Plant / LRP Expansion	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
31 Oct. 2025	TIA Road	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			
30 Nov. 2025	Drilling on Explo Track Area	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown			No dens found			

Notes:

LRP = Lump Rescreening Plant; m = metre; TIA = Tailings Impoundment Area

<sup>a</sup> Zone 13 W.

<sup>b</sup> Buffers for wildlife residences were not required when vegetation clearing / ground disturbance activities would occur outside of the buffer distance or when an upland bird nest was no longer in use (e.g., old nest or depredated).

### 3. VALUED ECOSYSTEM COMPONENT AND OTHER SPECIES MONITORING AND MITIGATION

#### 3.1 OBJECTIVES

The wildlife VECs identified in the Madrid-Boston FEIS included caribou, muskox, grizzly bear, wolverine, upland breeding birds, waterbirds, and raptors. The objective of monitoring the wildlife VECs is to assess the Madrid-Boston FEIS predictions of effects of the Mine. For caribou, muskox, grizzly bear and wolverine, this assessment is primarily executed through the camera monitoring program (TMAC Resources 2017). In addition, the facility cameras have been established to monitor sites that have the potential to attract wildlife (waste management areas, landfills, and TIA). There are also cameras specifically located to confirm wildlife use of wildlife mitigation structures (e.g., wildlife road crossings) to address Project Term and Condition 25 (NIRB 2016; Amendment 002).

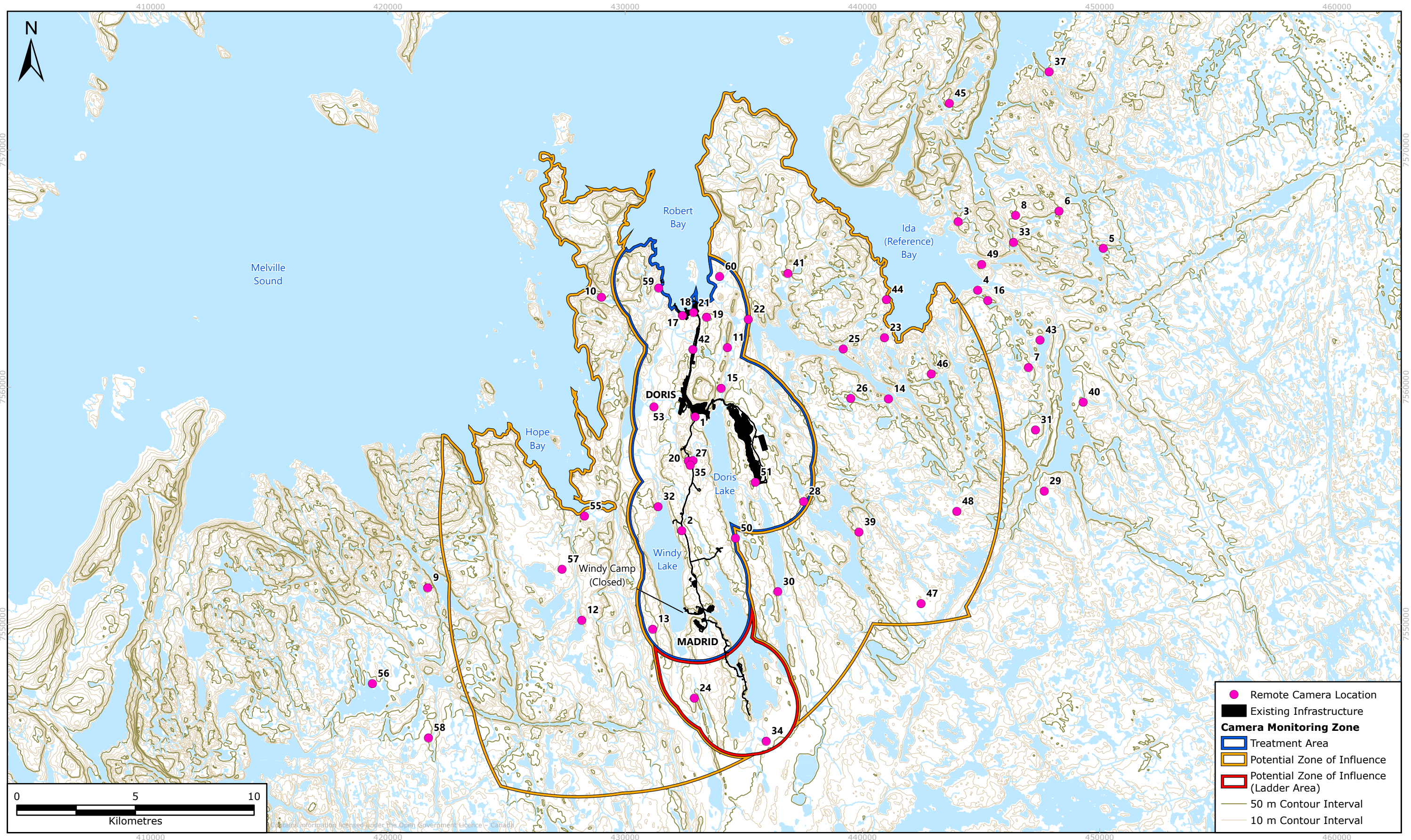
In 2025, upland breeding birds, waterbirds, and raptors were monitored in future wind turbine areas through avian migratory stand watch surveys, which are presented separately below. Upland breeding birds and waterbirds are also a part of a monitoring program (Section 3.8.2; Section 3.9.2) that is completed every 2 years; the program was not completed in 2025. Marine mammals and plants are also included, as they are monitored for their Project Certificate No. 009 commitments (NIRB 2018).

#### 3.2 METHODS COMMON TO MULTIPLE VALUED ECOSYSTEM COMPONENTS

##### 3.2.1 WILDLIFE CAMERA MONITORING

Currently, 55 Reconyx™ PC800 HyperFire Professional wildlife cameras are used to monitor caribou, muskox, grizzly bear, wolverine, and other wildlife within focal areas of the Study Area, as described in Section 1.3. In previous years, 60 cameras were used; however, between September 2024 and August 2025, five cameras did not provide usable data (i.e., cameras could not be located, were broken, or were deployed improperly) and have therefore been omitted from this analysis. The camera monitoring design has been employed since 2016; however, camera monitoring has been ongoing at the Mine since September 2012. Cameras are currently placed in three primary zones, including a Treatment zone within 2 km of the Mine (20 cameras), a ZOI from 2 to 10 km from the Mine (17 cameras), and a Control zone beyond 10 km from the Mine (18 cameras; Figure 3.2-1). There is also the Ladder area, which is part of the ZOI and will be included in the Treatment zone once Madrid is fully developed. Some cameras also have site-specific monitoring objectives and monitor specific Mine facilities. Two additional wildlife cameras were deployed near a culvert on Windy Road to investigate potential caribou use (as an alternative road crossing) in August 2022. All cameras are serviced twice annually, once in June and once in September. Data from the cameras were classified into "events," which represent the detection of an animal or animals. Events were considered independent based on a 30-minute temporal interval between captures of the same species. Wildlife camera event data for the Doris-Madrid area is summarized in Appendix E.

FIGURE 3.2-1 WILDLIFE CAMERA LOCATIONS, DORIS AND MADRID AREAS, 2016 TO 2025



### 3.2.2 WILDLIFE INTERACTIONS, INCIDENTS, AND MORTALITIES

Agnico Eagle records wildlife interactions, incidents, and mortalities as part of the Wildlife Sightings/Reporting Program and reports these interactions to the NIRB. An **interaction** occurs when wildlife comes into contact and acts upon or is acted upon by people or Mine infrastructure (e.g., a bear being observed on a road); deterrents may be used, but direct harm, injury, damage, or wildlife mortality does not occur. An **incident** is an interaction where an active deterrent is used and direct harm, injury, damage, or wildlife mortality occurs.

Agnico Eagle executes various processes to mitigate wildlife interactions, incidents, and mortalities. Information about interactions, incidents, and mortalities recorded in the 2025 calendar year are included with the relevant section for each VEC (Sections 3.4 to 3.12) and data are summarized in Appendix G.

### 3.2.3 INCIDENTAL WILDLIFE OBSERVATIONS

Incidental observations of wildlife are collected through various sources, which include the Agnico Eagle wildlife sightings log (as part of the Wildlife Sightings/Reporting process), and by environmental personnel, including wildlife biologists (Appendices H and I). Incidental observations by wildlife biologists while conducting field surveys have been collected since 1996, and the wildlife sightings log has been maintained since 2009. Agnico Eagle wildlife sightings log data are corrected for the average number of employees and contractors onsite (Appendix J) as a measure of standardization for observations of caribou (Appendix M), muskox (Appendix O), grizzly bear (Appendix Q), and wolverine (Appendix S). Incidental wildlife data cannot be used quantitatively (e.g., to estimate population sizes or density) because it is not collected using standardized survey methods.

### 3.2.4 SPECIES OF CONSERVATION CONCERN

Annual observations of species of conservation concern are summarized in the relevant section of each VEC. Species of conservation concern are included if they have been assessed with a threat status by the Committee on the Status of Endangered Wildlife in Canada (COSEWIC), are listed under the federal *Species at Risk Act* (SARA; 2002), or if they have a Nunavut territorial status (NatureServe 2025). The species of conservation concern with the potential to occur at the Mine are listed in Table 3.2-1.

## 3.3 RESULTS AND DISCUSSION COMMON TO MULTIPLE VALUED ECOSYSTEM COMPONENTS

### 3.3.1 CAMERA EFFORT

Camera effort is calculated to correct for periods when cameras are not capturing images (e.g., when knocked down or obscured by snow or fog). Effort is summarized by the number of functional days for each camera in each month from September 2024 to August 2025. The total and average number of active camera days for available cameras are presented in Table 3.3-1, and the total number of camera days for individual cameras is provided in Appendix D.

TABLE 3.2-1 SPECIES OF CONSERVATION CONCERN KNOWN TO OCCUR IN THE STUDY AREA

Species Group	Common Name	Species Name	Nunavut (General Status)	SARA	COSEWIC	Recorded in 2025?
Mammals	Caribou (Dolphin and Union)	<i>Rangifer tarandus</i>	Imperiled (S2)	Special Concern	Endangered	Y
	Caribou (Beverly/Ahiak)	<i>Rangifer tarandus</i>	Vulnerable (S2S4)	NA	Threatened	Y
	Grizzly bear	<i>Ursus arctos</i>	Vulnerable (S3)	Special Concern	Special Concern	Y
	Wolverine	<i>Gulo gulo</i>	Vulnerable (S3)	Special Concern	Special Concern	Y
Upland Birds	American Golden-Plover	<i>Pluvialis dominica</i>	Vulnerable (S3S4B)	NA	NA	N
	Harris's Sparrow	<i>Zonotrichia querula</i>	Apparently Secure (S4B)	Special Concern	Special Concern	N
	Redpoll <sup>a</sup>	<i>Acanthis flammea</i>	Vulnerable (S3)	NA	NA	Y
	Red-necked Phalarope	<i>Phalaropus lobatus</i>	Vulnerable (S3B)	Special Concern	Special Concern	N
	Semipalmated Sandpiper	<i>Calidris pusilla</i>	Vulnerable (S3B)	NA	NA	Y
Waterbirds	Common Eider	<i>Somateria mollissima</i>	Vulnerable (S3)	NA	NA	Y
	King Eider	<i>Somateria spectabilis</i>	Vulnerable (S3)	NA	NA	N
Raptors	Golden Eagle	<i>Aquila chrysaetos</i>	Vulnerable (S3B)	NA	Not at Risk	Y
	Short-eared Owl	<i>Asio flammeus</i>	Vulnerable (S3B)	Special Concern (Under Consideration)	Threatened	Y
Marine Mammals	Beluga (Eastern High Arctic-Baffin)	<i>Delphinapterus leucas</i>	Vulnerable (S3)	Under Consideration	Special Concern	N
	Bowhead whale (Bering-Chukchi-Beaufort)	<i>Balaena mysticetus</i>	Vulnerable (S3)	Special Concern	Special Concern	N
	Bowhead whale (Eastern Canada-West Greenland)	<i>Balaena mysticetus</i>	Vulnerable (S3)	Under Consideration	Special Concern	N
	Killer whale (Northwest Atlantic/Eastern Arctic)	<i>Orcinus orca</i>	Imperiled (S2S3)	Under Consideration	Special Concern	N
	Narwhal	<i>Monodon monoceros</i>	Vulnerable (S3)	NA	No Longer at Risk	N
	Ringed seal	<i>Pusa hispida</i>	Apparently Secure (S4)	Under Consideration	Special Concern	Y
	Walrus (High Arctic)	<i>Odobenus rosmarus</i>	Vulnerable (S3)	Under Consideration	Special Concern	N

## Notes:

COSEWIC = Committee on the Status of Endangered Wildlife in Canada; NA = not applicable; SARA = *Species at Risk Act*<sup>a</sup> Taxonomic change of hoary redpoll (*Acanthis hornemanni*) into redpoll (*Acanthis flammea*) as of 2024. Vulnerable (S3) status remains unchanged.

TABLE 3.3-1 SUMMARY OF CAMERA EFFORT RECORDED AT TREATMENT ZONE, ZONE OF INFLUENCE, AND CONTROL ZONE CAMERAS BY MONTH, SEPTEMBER 2024 TO AUGUST 2025

Year	Month	Treatment Zone			ZOI			Control Zone		
		Number of Cameras	Total Active Days	Average Active Days	Number of Cameras	Total Active Days	Average Active Days	Number of Cameras	Total Active Days	Average Active Days
2024	September	19	492	25.89	16	464	29.00	17	465	27.35
	October	17	515	30.29	16	475	29.69	15	419	27.93
	November	17	473	27.82	16	460	28.75	14	420	30.00
	December	15	460	30.67	15	465	31.00	14	430	30.71
2025	January	15	445	29.67	15	456	30.40	14	434	31.00
	February	13	362	27.85	15	390	26.00	14	390	27.86
	March	13	378	29.08	13	403	31.00	14	433	30.93
	April	12	360	30.00	13	316	24.31	14	401	28.64
	May	12	317	26.42	9	193	21.44	12	295	24.58
	June	6	142	23.67	5	90	18.00	8	207	25.88
	July	20	525	26.25	15	366	24.40	14	306	21.86
	August	19	541	28.47	14	373	26.64	14	325	23.21

Note:  
ZOI = Zone of Influence

In previous years, the camera program has shown decreased effort during winter from December through February due to snow covering the camera lenses, which resulted in a loss of effort for most days (Table 3.3-1). In 2025, effort remained relatively consistent across all months, despite intermittent snow covering the lenses. Effort was relatively consistent across all zones during this period.

An increasing number of cameras have been knocked down each period, typically by grizzly bears, based on 2019 data. This issue was discussed with the IEAC in 2020 and 2021 along with plans to improve the camera tripod infrastructure. Of the 60 Doris cameras that were deployed in September 2024, 22 were found knocked down during camera checks in 2025; this is a 36% knock-down rate: higher than the 30% knock-down rate noted in 2019 and the 18% knock-down rate in 2024. Camera tripods are repaired as required. While 60 cameras were deployed at the start of the monitoring period, only 55 cameras were analyzed, as discussed in Section 3.2.1.

### 3.3.2 NON-VALUED ECOSYSTEM COMPONENT WILDLIFE SIGHTINGS LOG, INCIDENTAL OBSERVATIONS, AND INTERACTIONS

In 2025, several observations of non-VEC species were recorded via the wildlife sightings log and through incidental observations by biologists, details of which are found in Appendix H and Appendix I. There were five non-VEC wildlife mortalities recorded due to vehicle collisions: one Arctic hare and four Arctic ground squirrels. On 9 June, one Arctic fox was found deceased behind the Sewage Treatment Plant, possibly from an injury.

One interaction occurred on 8 November when a red fox repeatedly approached workers near the A-Wing Sea-Cans. The area was monitored and no further interactions occurred. Details regarding the non-VEC mortalities are included in Appendix G.

## 3.4 CARIBOU

Two caribou herds use habitat near the Mine: the Dolphin and Union herd, and the Beverly/Ahiak herd. The Mine overlaps with the winter range of the Dolphin and Union herd and is near the summer, fall, and winter range of the Beverly/Ahiak herd.

The Dolphin and Union herd winters on the mainland near the coast, both east and west of Bathurst Inlet, and travels on the sea ice during spring to Victoria Island to calve and spend the summer and fall (Poole et al. 2010). The herd returns across the sea ice following freeze-up in November. The Dolphin and Union herd is listed as Special Concern under SARA and as Endangered by COSEWIC (Government of Canada 2024). Territorially, the herd is listed as Imperiled in Nunavut (NatureServe 2025).

The Beverly/Ahiak herd calves to the east of the Mine area in the Queen Maude Gulf Bird Sanctuary, and the herd then spreads south and west from the Queen Maude Gulf for the late summer and fall. The Beverly/Ahiak herd is barren-ground caribou assessed as Threatened by COSEWIC (Government of Canada 2024) but not yet listed under SARA. Nunavut has listed barren-ground caribou, other than the Dolphin and Union herd, as Vulnerable (NatureServe 2025). Caribou of the Beverly/Ahiak herd winter above the treeline on the tundra and below the treeline in the Northwest Territories and northern Saskatchewan.

There is some disagreement over whether the Beverly/Ahiak herd should be referred to as a single herd, or separately as two subpopulations. The Government of Nunavut surveys the two groups separately and refers to them as two subpopulations in their population survey reports, rather than a distinct herd or separate herds. This Report refers to these caribou either separately (as subpopulations) or together as the Beverly/Ahiak herd, where relevant. Calving areas for these two subpopulations are calculated separately, in response to a request from the Government of Nunavut.

Inuit Qaujimagatuqangit (Inuit traditional knowledge) shared by the land users from the IEAC indicate that Dolphin and Union caribou now cross the sea ice to the east of Bathurst Inlet and the Mine, near Wellington Bay. IEAC members also indicate that Dolphin and Union caribou no longer winter on the northern part of the Kent peninsula and instead winter on the mainland. Other than these shifts, which began before 2019, the Dolphin and Union caribou have maintained consistent usage of the area surrounding the Mine for over 20 years, with some animals passing through the area during spring and fall migration, and low numbers of caribou in the area during winter.

Agnico Eagle and the Government of Nunavut signed a Memorandum of Understanding (MOU) for collaborative monitoring for Dolphin and Union caribou as of March 2023.

### 3.4.1 FINAL ENVIRONMENTAL IMPACT STATEMENT PREDICTIONS

The residual effects of disturbance and disruption of movement on caribou within the Madrid-Boston FEIS RSA were predicted to be not significant and low magnitude in the Madrid-Boston FEIS (TMAC Resources 2017).

### 3.4.2 METHODS

Monitoring for caribou is currently completed using multiple approaches, as follows:

#### **Caribou Collar Data Analysis**

The first approach to monitor caribou is through analysis of collar data which are collected and shared by the governments of Northwest Territories and Nunavut. The analysis of collar data from specific seasonal periods can detect shifts in the calving range for the Beverly/Ahiak herd. A shift toward the Mine would trigger additional mitigation measures for caribou. For Dolphin and Union caribou, winter range analyses are completed to examine the amount of overlap between the Mine and this seasonal range, following a request from the KIA (2017). The collar data are analyzed using kernel density analysis (ERM Consultants Canada Ltd. [ERM] 2023a).

#### **Camera Monitoring**

The second approach is using wildlife cameras (see general wildlife camera methods in Section 3.2.1), where the camera data are statistically analyzed every 3 years. The next analysis will be completed for the 2026 annual compliance report to investigate potential differences in the occurrence of caribou within the Treatment, Control, and ZOI areas. Wildlife cameras are also used to better understand seasonal use by caribou of the Mine. Caribou are also identified by herd based on a request by the IEAC to understand potential changes in the presence of Dolphin and Union caribou on the mainland year-round. Caribou herd identification differentiates individuals belonging to the Beverly/Ahiak herd from individuals belonging to the Dolphin and Union herd.

## Height of Land Monitoring

The third approach, height of land (HOL) monitoring, was initiated in 2024 and was completed for the second time in 2025. This monitoring protocol is completed during the spring and fall migrations and is triggered based on reported caribou activity onsite. HOL surveys were completed twice in 2025, with one round of surveys in May and another in September.

## Wildlife Sightings Log and Incidental Observations

Lastly, caribou are monitored through the Wildlife Sightings/Reporting program.

### 3.4.2.2 ANALYSIS OF CARIBOU COLLAR DATA

To determine how different caribou herds use areas in proximity to the Mine, an analysis using kernel density and utilization distribution (UD) methods was completed using Global Positioning System (GPS) collar data. Kernel density and UD methods assess spatial caribou use through a bivariate probability function. Kernel density estimates were created with the resulting 50% UD representing the “core” range and 95% UD representing the “overall” range.

## Beverly and Ahiak Subpopulation Calving Ground Locations

Analysis on the Beverly and Ahiak subpopulations was limited to the calving season to determine each subpopulation's calving range. For the purposes of this analysis, the calving season is defined as occurring from 6 June to 19 June (Nagy 2011). As data provided by the Government of Northwest Territories does not differentiate between the Beverly and Ahiak subpopulations, for this analysis individual collared females are assigned to each herd based on their location as compared to a historic dividing line at the start of the calving season. During some years, females may arrive on the calving grounds later than expected and/or leave earlier than expected. To further refine the “calving” season to only include calving females, daily movement rates of individual females were examined in more detail. Caribou occupying a restricted area with daily movement rates less than (<) 5 km were considered to be calving. In contrast, if daily movement rates of greater than (>) 5 km were observed leading into or out of the calving ground, this was interpreted as indicating that the individual was either still migrating or had concluded calving. Collar location data for these days were excluded from further analysis.

## Dolphin and Union Herd Winter Range Locations

For the Dolphin and Union herd winter range locations analysis, which was requested by KIA in 2017 (KIA 2017), data (2001 to 2025) were supplied by the Government of Nunavut Department of Environment. This analysis determines the amount of overlap between the Dolphin and Union winter range (8 December to 16 April) and the Study Area, both currently and historically. It is noted that the overlap between the Dolphin and Union caribou herd with the Mine area does not trigger additional mitigation for caribou beyond the year-round caribou mitigation measures (Agnico Eagle 2025).

### 3.4.2.3 SUMMARY OF WILDLIFE CAMERA DATA

Camera data were corrected for daily effort, where the camera was considered to have no effort during periods when snow covered the camera, batteries were no longer functional, or if the camera was knocked over for more than 24 hours. Caribou detection data were then summarized and are discussed in Section 3.4.3.2.

Further details on methodology for this monitoring program can be found in Appendix C and in Section 3.2. Datasets of 2025 camera effort and detection events are presented in Appendices F to H.

#### **Caribou Herd Identification**

Caribou were classified by herd, which was determined based on the Mine's Caribou Identification Guide developed via a caribou identification workshop with the IEAC. Caribou from each herd in the Mine area have distinct physical features and can be identified to herd level with clear photos of the whole animal. Identifications were made by considering consecutive images taken of each caribou. Classification of caribou herd was completed by ERM staff trained to identify Beverly/Ahiak and Dolphin and Union individuals. Caribou detections with uncertain herd characteristics are provided to the IEAC for additional input.

### 3.4.2.4 HEIGHT OF LAND

HOL surveys were requested by the IEAC as a Traditional Inuit way to survey caribou from a distance. Surveys are completed each year during the spring and fall migration and are triggered if 25 or more individual caribou are observed within 5 km of Mine infrastructure during a 24-hour time period. HOL surveys are completed across a 6-day period, preferentially by an Inuit Monitor chosen by the Cambridge Bay Hunters and Trappers Organization. HOL surveys followed methods outlined in the Caribou HOL Monitoring SOP. The Caribou HOL Monitoring SOP and survey sites were developed during several workshops with the IEAC held between 2021 and 2023. The HOL surveys are completed at three predetermined sites along Windy Road, where surveyors scan the landscape for caribou for 10 minutes and record any caribou observed. These surveys are completed twice per day, spaced out as much as possible temporally, at each of the three survey sites.

## 3.4.3 RESULTS AND DISCUSSION

### 3.4.3.1 CARIBOU COLLAR DATA ANALYSIS

#### **Beverly and Ahiak Subpopulation Calving Ground Locations**

The results of the Beverly and Ahiak subpopulations calving range analysis indicate the 2025 calving ranges for these two subpopulations are generally consistent with historical data. Both the core (50% UD) and overall (95% UD) ranges of each subpopulation were generally centred along the Queen Maud Gulf and to the east of the Study Area (Figures 3.4-1 and 3.4-2). The calving range of the Beverly subpopulation generally occurs further west and extends further south than the Ahiak subpopulation. The calving ranges of each subpopulation show historical overlap with one another (Figures 3.4-1 and 3.4-2).

FIGURE 3.4-1 50% KERNEL DENSITY ESTIMATES OF THE CALVING HOME RANGE OF BEVERLY AND AHIK SUB-POPULATIONS COLLAR DATA, 2012 TO 2024 AND 2025

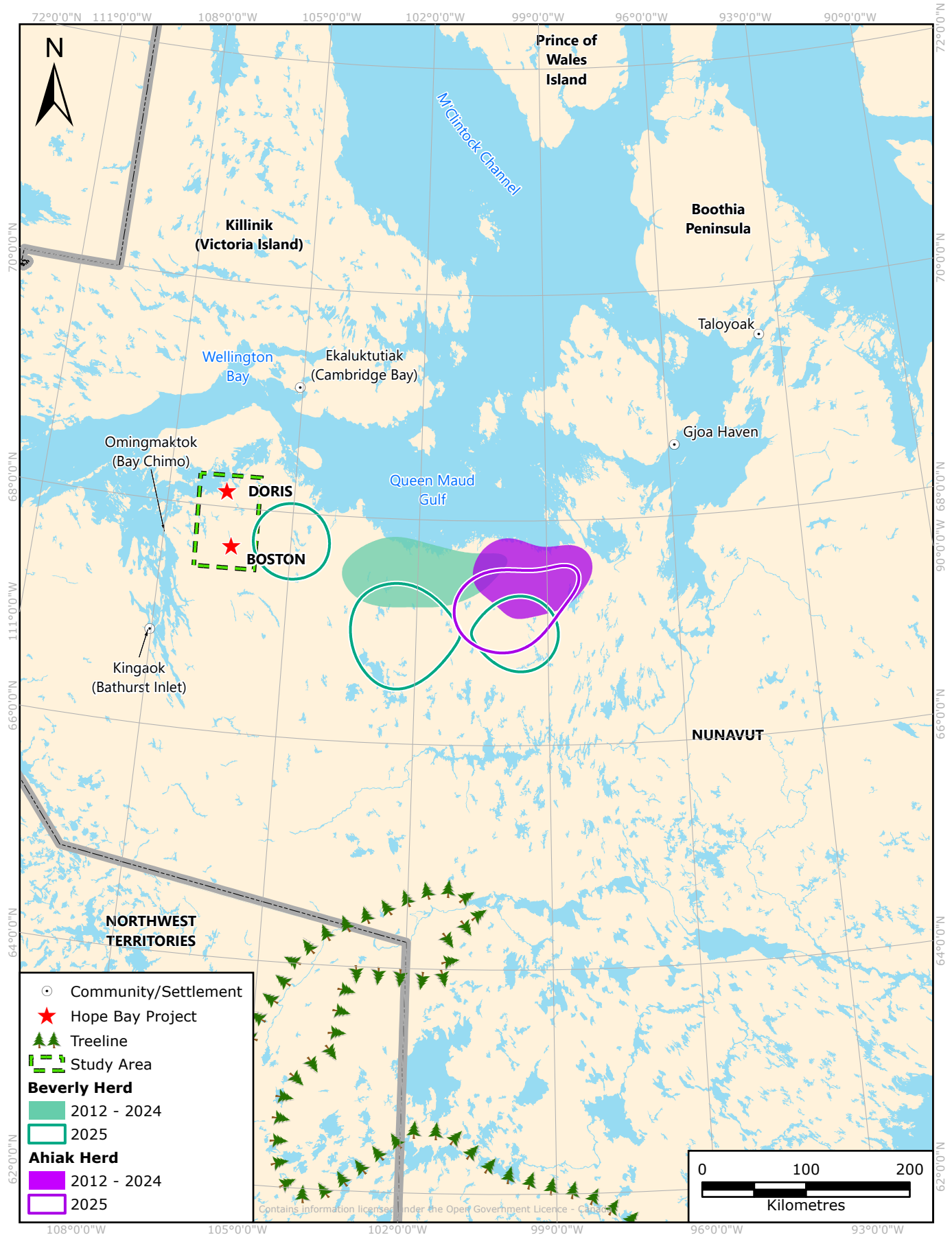
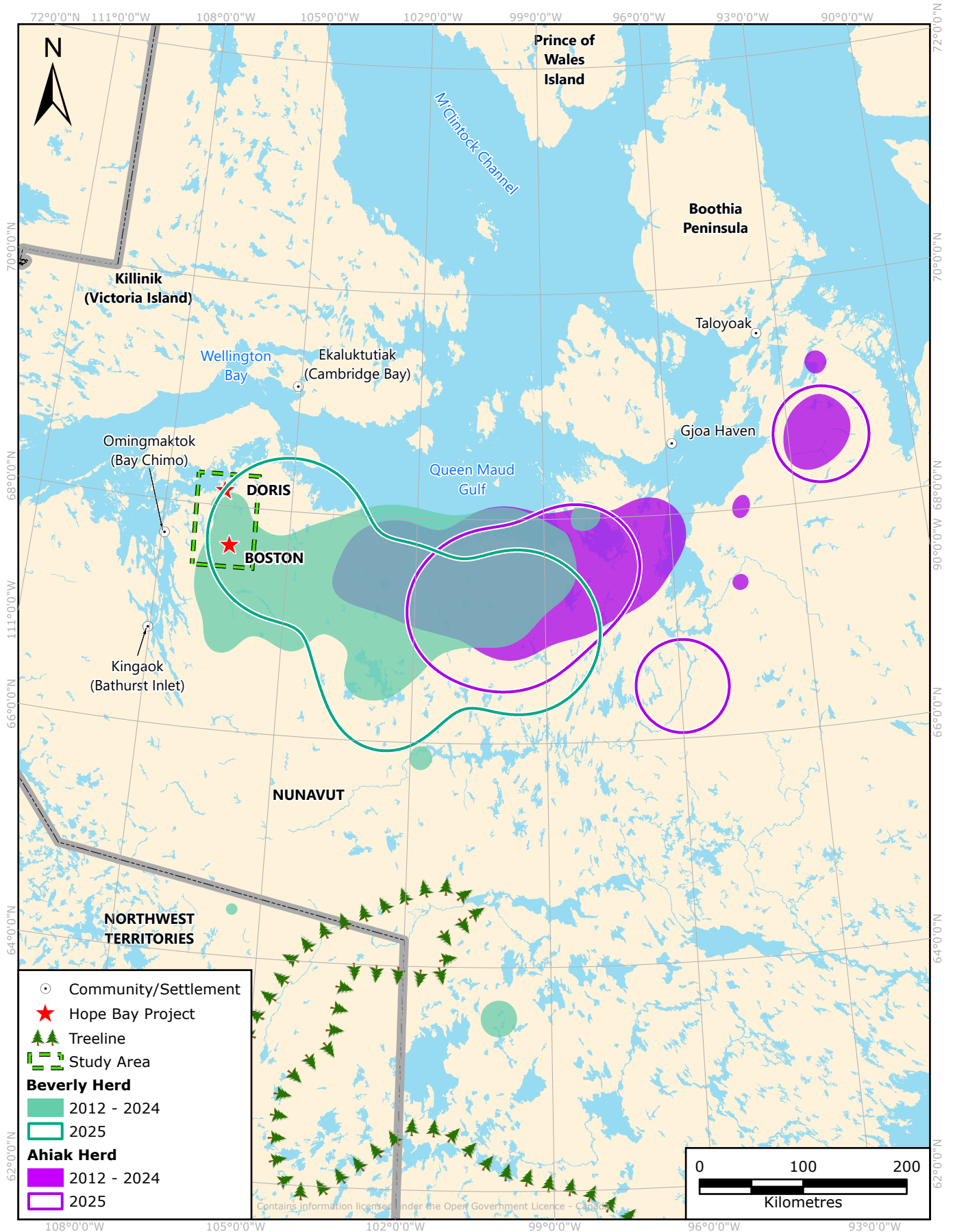


FIGURE 3.4-2 95% KERNEL DENSITY ESTIMATES OF THE CALVING HOME RANGE OF BEVERLY AND AHIK SUB-POPULATIONS COLLAR DATA, 2012 TO 2024 AND 2025



The core (50% UD) Beverly and Ahiak calving ranges occur along the coastline of the Queen Maud Gulf and extend southwards. The Ahiak subpopulation's core range in 2025 overlapped with the historical range, but occurred generally more southwards, further away from the coast (Figure 3.4-1). The Beverly subpopulation in 2025 saw a notable shift southward, compared to the historical range, and included some core range that borders the Study Area to the west of the historical range (Figure 3.4-1). In addition, a portion of the Beverly subpopulation's 2025 core range overlapped Ahiak range (Figure 3.4-1). This was caused by a collared individual that occurred in the Beverly range for the majority of the years it was collared but displayed an eastward shift in 2025.

The Ahiak subpopulation's overall range (95% UD) in 2025 appears to occur within a centralized location of the historical range, with almost the entirety of the 2025 range located within the historical range, in addition to an additional area to the south and east (Figure 3.4-2). Similar to the historical range, 2025 also had some overall calving range located toward the Boothia Peninsula, south of Taloyoak. The Beverly subpopulation had greater variation between the 2025 and historical range compared to the Ahiak subpopulation.

The 2025 and historical overall ranges of the Beverly subpopulation overlap both the Doris and Boston sites, and extends across over half of the Study Area (Figure 3.4-2). In 2025, the overlap was limited to a single female that appeared to calve outside of the Study Area on the eastern side. Historically, the overlap was caused by several collared females in 2019 and 2021. One collared female appeared to calve within the northern half of the Study Area in 2019, in the vicinity of the Doris area. Three collared females appeared to calve in the southeastern corner of the Study Area in 2021, in the vicinity of the Boston area. These overlaps were described in the respective annual reports (ERM 2021, 2023). Despite these occasional incidents, the core range of the Beverly herd remains outside the Study Area, and the majority of collared individuals continue to calve to the east of the Study Area, with no collared Beverly caribou observed within the Study Area during calving from 2022 to 2025. Additional mitigation has not been implemented at site for calving caribou, since the core range of the Beverly subpopulation does not overlap the Hope Bay Study Area.

### **Dolphin and Union Herd Winter Range Locations**

The Dolphin and Union herd winter range analyses indicate that both the core winter range and overall ranges were smaller compared to the historical range (Figures 3.4-3 and 3.4-4). The core range in 2025 did not overlap the Study Area, similar to the historical core range. The overall range in 2025 overlapped the majority of the Study Area, which aligns with the historic overall range that overlaps the entirety of the Study Area. The core wintering area occurred exclusively on the west side of the Bathurst Inlet, both historically and in 2025. In 2025, the overall range was largely located on the west side of Bathurst Inlet, with a single unconnected range pocket on southern Victoria Island to the east of Wellington Bay.

The core wintering range had a high degree of overlap between 2025 and the historical data. There was a contraction in the range; however, the 2025 range was almost exclusively located within the range of historical data, with the exception of a slight extension to the north in 2025 (Figure 3.4-3).

FIGURE 3.4-3 50% KERNEL DENSITY ESTIMATES OF THE WINTER RANGE OF DOLPHIN AND UNION HERD COLLAR DATA, 2001 TO 2024 AND 2025

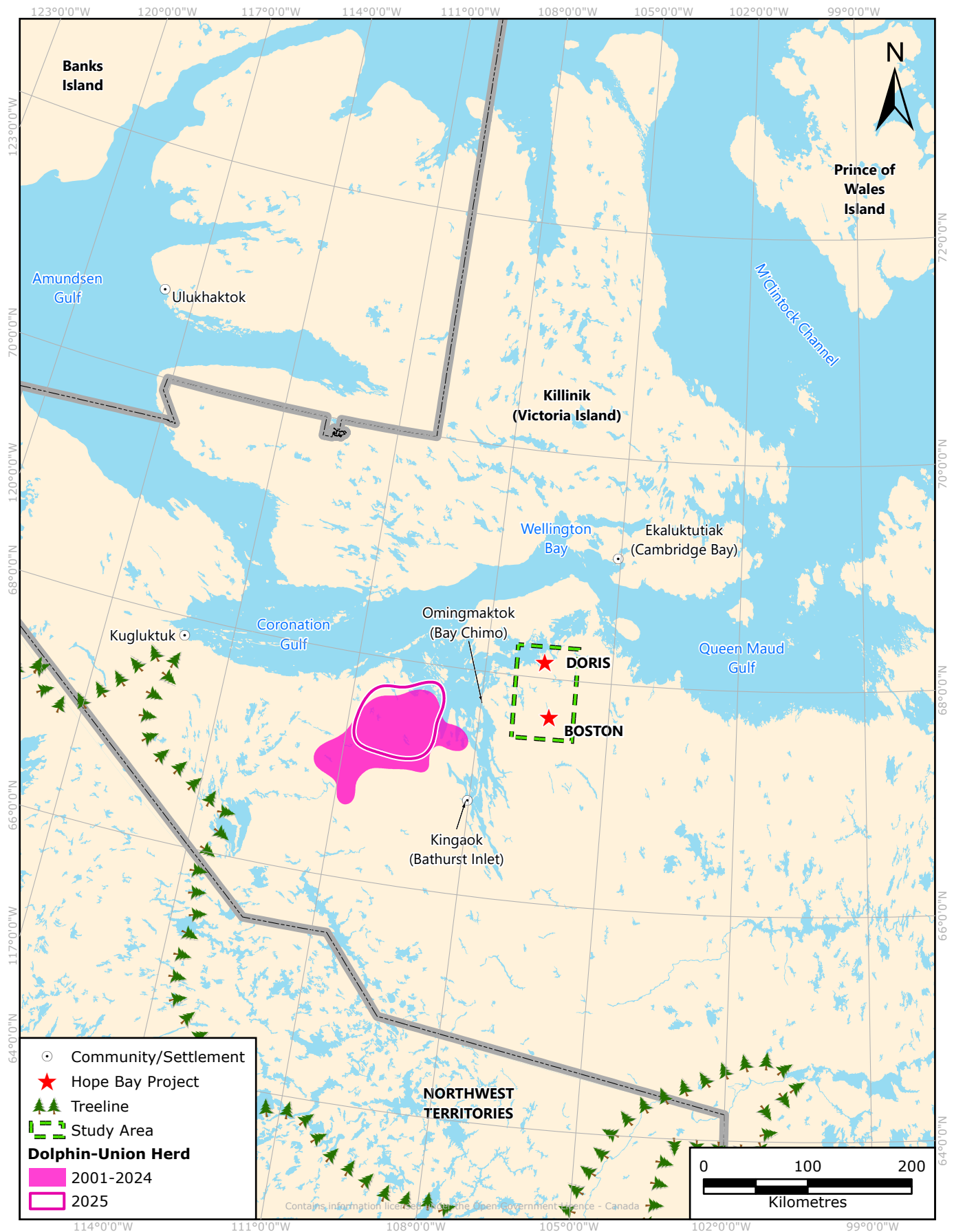
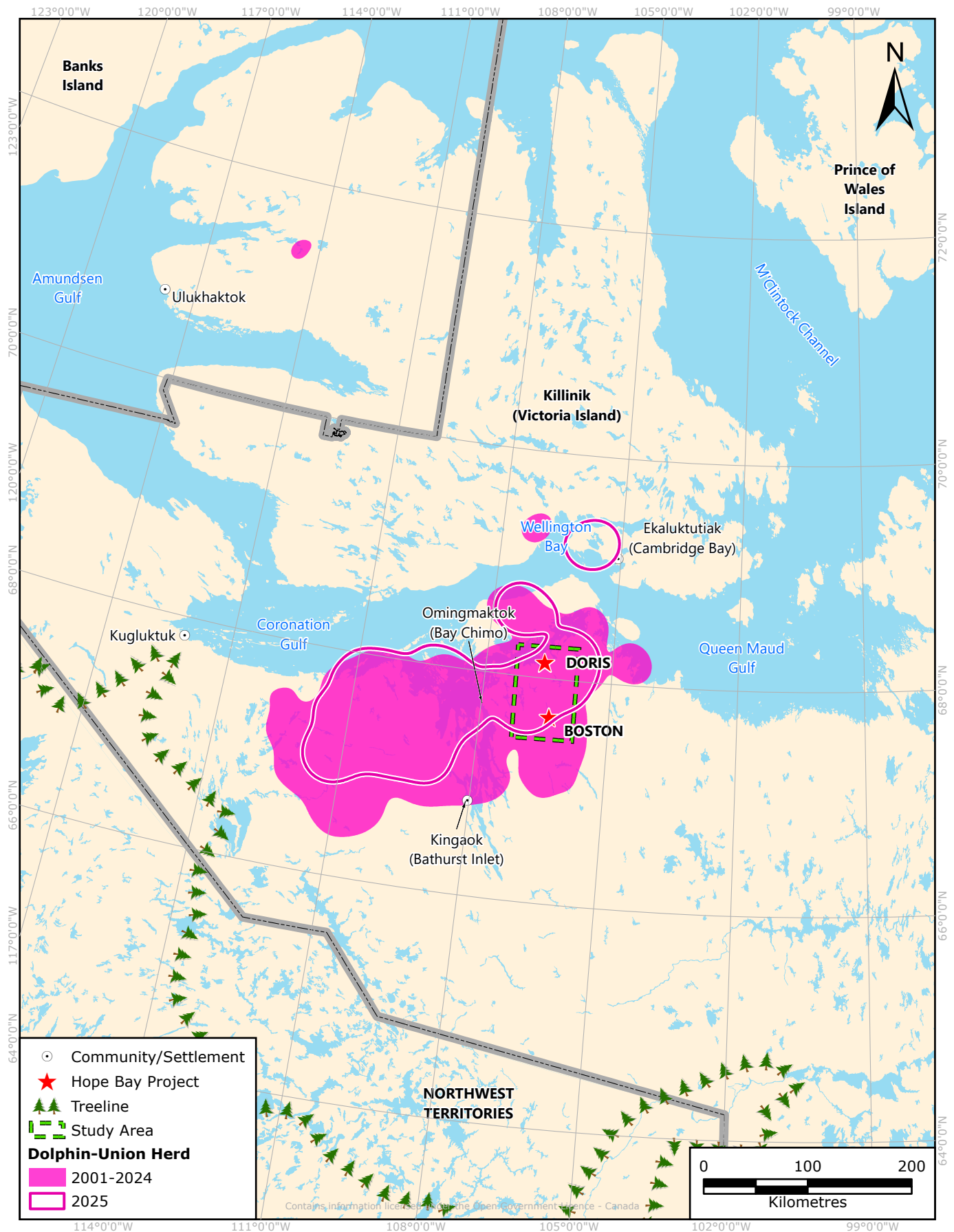


FIGURE 3.4-4 95% KERNEL DENSITY ESTIMATES OF THE WINTER RANGE OF DOLPHIN AND UNION HERD COLLAR DATA, 2001 TO 2024 AND 2025



### 3.4.3.2 CAMERA MONITORING

Between 1 September 2024 and 31 August 2025, 55 cameras were active for 13,986 days, averaging 254 active days per camera. Camera effort within monitoring zones for the most recent year is summarized by month in Table 3.3-1; effort summaries per camera are provided in Appendix F. A brief summary of the images and caribou events recorded across all cameras during 2024 and 2025 monitoring is provided below. Data from cameras 2 and 35 (monitoring the road crossing ramps), cameras 20 and 27 (monitoring the under-road culvert), and camera 51 (monitoring the TIA) are also included in the summary below.

A total of 214 caribou events were recorded between 1 September 2024 and 31 August 2025 (Table 3.4-1), and 1,699 caribou events were recorded between 2016 and 2025 (Figure 3.4-5; Appendix L). In 2025, caribou events occurred primarily in July and August, with 75% of caribou events occurring in these 2 months. Overall, caribou events were most common in the Treatment zone and represented 50% of total caribou events compared to 32% in the ZOI and 18% in the Control zone. Occasional events were also recorded in fall and spring months, which is consistent with previous monitoring years.

**TABLE 3.4-1 CARIBOU EVENTS RECORDED BY MONTH AT TREATMENT ZONE, ZONE OF INFLUENCE, AND CONTROL ZONE CAMERAS, SEPTEMBER 2024 TO AUGUST 2025**

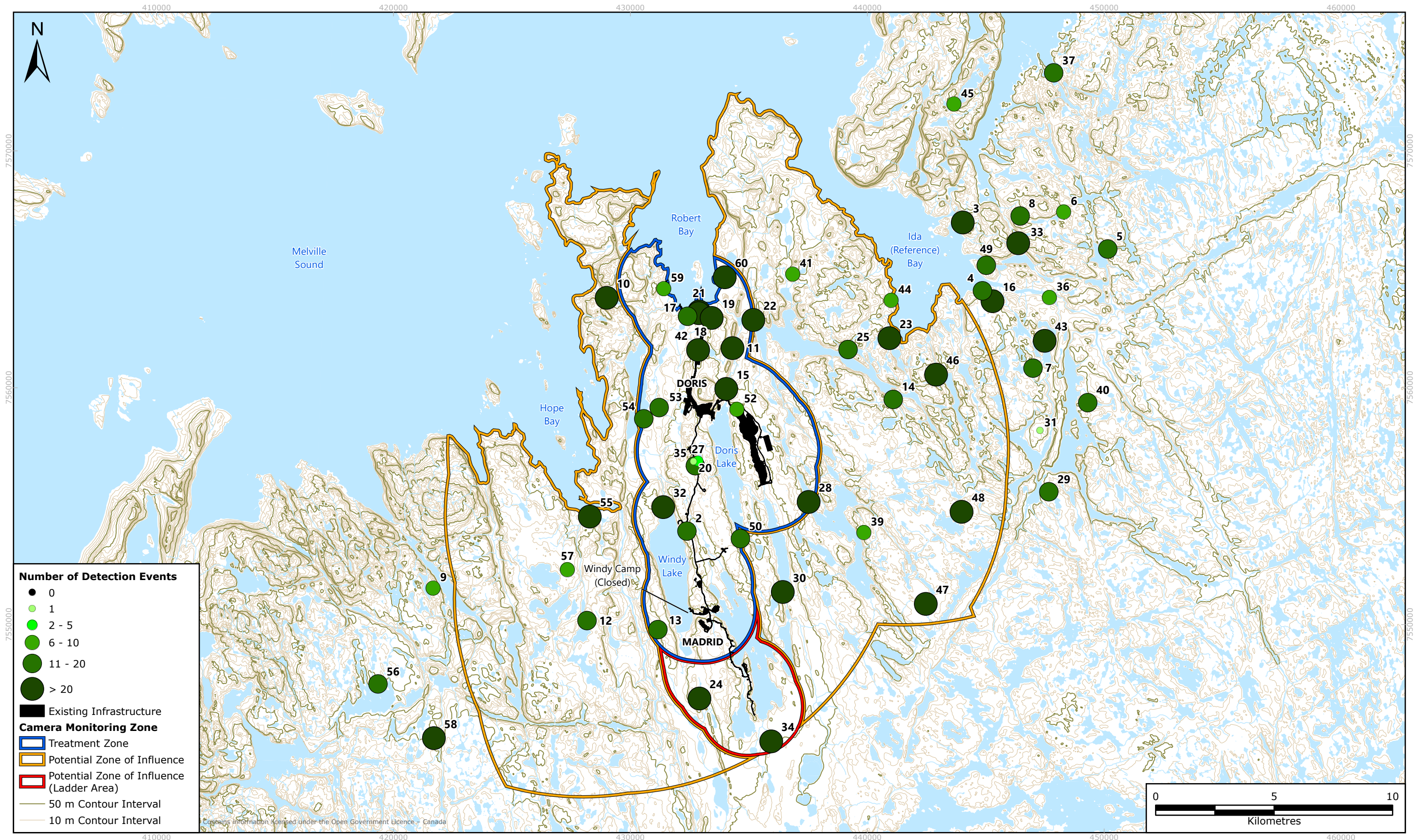
Year	Month	Treatment Zone		ZOI		Control Zone	
		Camera Effort <sup>a</sup> Total Active Days	Number of Events	Camera Effort <sup>a</sup> Total Active Days	Number of Events	Camera Effort <sup>a</sup> Total Active Days	Number of Events
2024	September	492	4	464	7	465	6
	October	515	1	475	3	419	0
	November	473	0	460	0	420	0
	December	460	0	465	0	430	0
2025	January	445	1	456	0	434	0
	February	362	0	390	5	390	0
	March	378	0	403	1	433	0
	April	360	2	316	1	401	3
	May	317	1	193	5	295	7
	June	142	0	90	3	207	1
	July	525	60	366	28	306	13
	August	541	38	373	15	325	6
<b>Total</b>		<b>-</b>	<b>107</b>	<b>-</b>	<b>68</b>	<b>-</b>	<b>36</b>

Notes:

ZOI = Zone of Influence

<sup>a</sup> A total of 55 cameras were deployed across the Treatment, ZOI, and Control zones.

FIGURE 3.4-5 DETECTIONS OF CARIBOU ON MOTION-TRIGGERED PHOTOS RECORDED BY WILDLIFE CAMERAS IN DORIS AND MADRID AREAS, 2016 TO 2025



## Facilities Camera Monitoring

Under the current camera program design, there are four cameras that have site-specific monitoring objectives for caribou. These are cameras 2 and 35, installed at the two caribou crossing ramps along the Doris-Windy AWR, and cameras 51 and 52, installed at the north and south end of the TIA. However, camera 52 could not be located during fall 2024 servicing; therefore, data from this camera are unavailable. Individual camera effort information is provided in Appendix F. Camera effort varied greatly across facility monitoring cameras in 2025, with camera 35 having the most effort (136 active days), followed by camera 2 (132 active days), and camera 51 (50 active days). This represents an increased number of active camera days for cameras 2 and 35 and a decrease in number of active camera days for camera 51, in comparison to 2024.

Facility monitoring cameras recorded 38 caribou events between 1 September 2024 and 31 August 2025. Camera 2 on the road crossing ramp had three caribou events on 24 July, 1 August, and 4 August 2025; each comprised of a lone adult (Appendix L). Camera 35, also on the road crossing ramp, had six caribou events between 6 July 2025 and 22 August 2025, with all events comprising of one caribou, except for one event of a pair, totalling seven caribou observed. A total of 29 caribou events were recorded between 9 July 2025 and 16 August 2025 on camera 51 located on the TIA. Events were comprised of one to three adults in all cases, with a total of 35 caribou observed. Caribou presence around the site, noted through the Wildlife Sightings/Reporting process, is discussed in Section 3.4.3.4.

In 2022, two cameras were deployed at the Windy Road culvert, approximately 160 m north of one of the caribou crossing ramps. A total of four events, totalling five individuals, were captured on these cameras between 6 July and 10 August 2025.

## Caribou Herd Identification

Caribou were identified by herd (either Beverly/Ahiak or Dolphin and Union) for all camera data from September 2024 to August 2025 across 201 caribou detections (Table 3.4-2). The Beverly/Ahiak herd accounted for most events (77%), followed by unknown individuals (12%), and lastly, the Dolphin and Union herd (11%; Table 3.4-2). Most unknown classifications of caribou were due to caribou being too close or too far away from the camera to show identifiable herd characteristics. Unknown identifications due to uncertainty in the herd will be provided to the IEAC for identification assistance.

Individuals from the Beverly/Ahiak herd were observed from September to October in 2024 and between April and August in 2025. The month with the highest number of observations of individuals from the Beverly/Ahiak herd was July, with 88 events in 2025 (Table 3.4-2). This peak in observations corresponds to the post-calving period for the Beverly/Ahiak herd.

One event from the Dolphin and Union herd was observed in September in 2024, and 21 events were observed between January and July in 2025. The month with the highest number of observations of the Dolphin and Union herd occurred in July 2025 ( $n = 6$ ; Table 3.4-2). The slightly higher number of Dolphin and Union individuals in July 2025 likely reflects local movement by non-migratory or late-moving individuals, influenced by annual variation in sea ice melt.

TABLE 3.4-2 BEVERLY/AHIAK AND DOLPHIN AND UNION CARIBOU HERD IDENTIFICATION,  
2024 TO 2025

Date		Herd		
		Dolphin and Union	Beverly/Ahiak	Unknown
2024	September	1	13	-
	October	-	2	2
	November	-	-	-
	December	-	-	-
2025	January	1	-	1
	February	5	-	-
	March	1	-	-
	April	2	3	1
	May	5	2	6
	June	1	1	2
	July	6	88	8
	August	-	46	4
<b>Total</b>		<b>22</b>	<b>155</b>	<b>24</b>

Note:

- = No caribou detected.

### 3.4.3.3 HEIGHT OF LAND MONITORING

The HOL surveys were completed during the spring and fall migration, as per the WMMP (Agnico Eagle 2025). Surveys were completed at the three predetermined survey sites (Figure 3.4-6) between 17 and 25 May and 21 and 28 September. No additional HOL surveys were triggered (i.e., > 25 caribou observed within 5 km of infrastructure).

Of the 28 total surveys completed, 46% of the surveys (n = 13) recorded caribou presence. Of the surveys with caribou observed, abundance was higher in 2025 compared to 2024, with groups ranging between two to six individuals. In 2025, 54% of surveys of caribou presence recorded groups of two to six caribou and no observations of lone caribou. In comparison, all surveys in 2024 (n = 22) recorded one to two caribou; 89% of surveys recorded lone caribou, and 11% of surveys recorded two caribou. In 2025, surveyors recorded the sex as unknown for all observations, except for one survey (HOL16) recording an observation of one male and one female (Table 3.4-3). No lone caribou were observed during the 2025 HOL surveys.

FIGURE 3.4-6 HEIGHT OF LAND SURVEY LOCATIONS, 2025

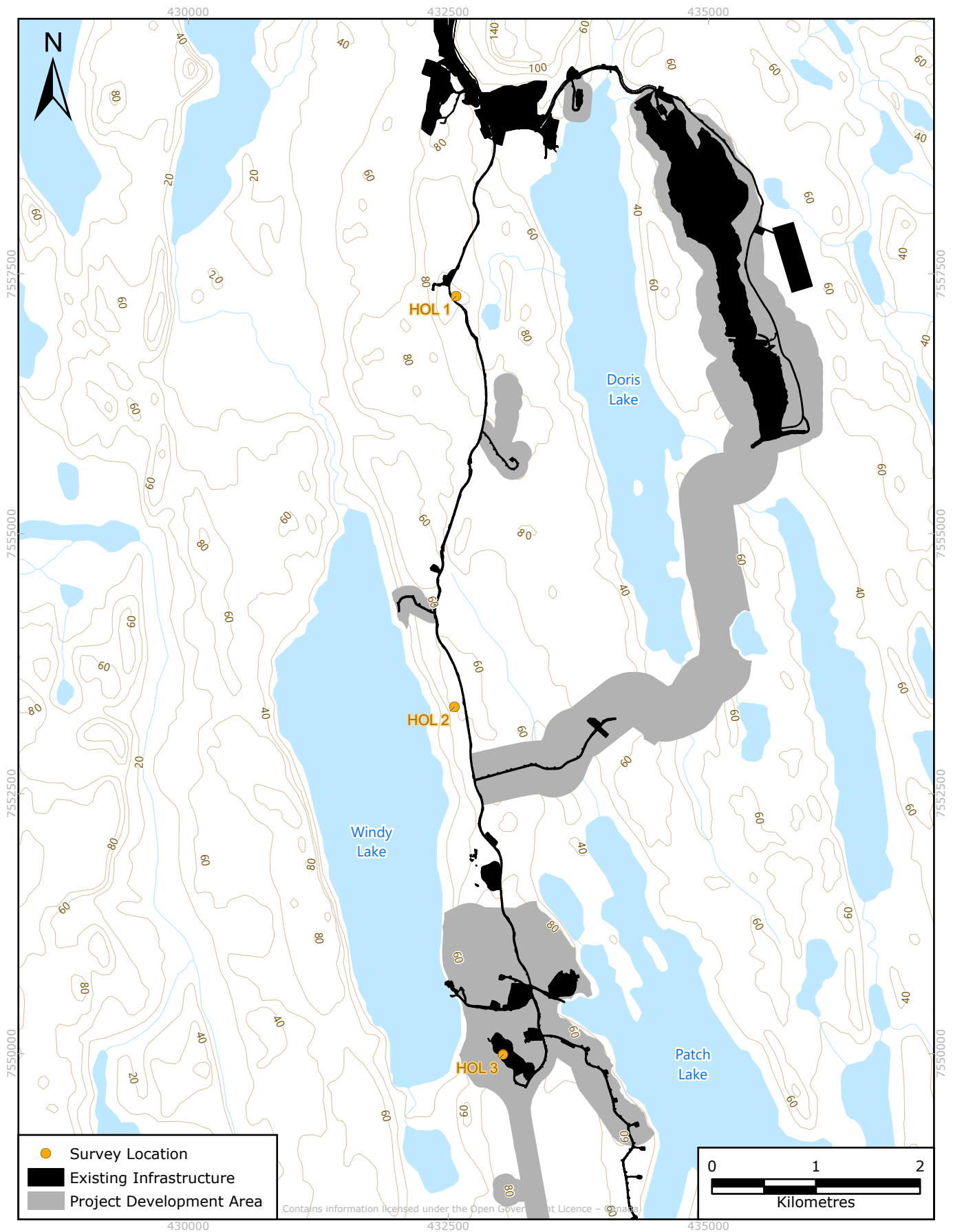


TABLE 3.4-3 SUMMARY OF CARIBOU OBSERVATIONS DURING THE HEIGHT OF LAND SURVEYS, 2025

Survey ID	Date	Site	Male	Female	Unknown	Total	Direction	Distance (m) to Caribou
HOL5	19 May 2025	HOL-1	0	0	2	2	NE	1,500
HOL7	20 May 2025	HOL-1	0	0	4	4	E	1,500
HOL7	20 May 2025	HOL-1	0	0	6	6	N	340
HOL9	21 May 2025	HOL-2	0	0	6	6	SE	500
HOL10	21 May 2025	HOL-3	0	0	4	4	SE	600
HOL10	21 May 2025	HOL-1	0	0	6	6	S	850
HOL11	22 May 2025	HOL-2	0	0	6	6	E/SE	750
HOL12	23 May 2025	HOL-2	0	0	6	6	NE	600
HOL12	23 May 2025	HOL-1	0	0	6	6	SW	1,000
HOL13	23 May 2025	HOL-1	0	0	4	4	E	2,000
HOL14	25 May 2025	HOL-1	0	0	5	5	SE	600
HOL16	21 Sept. 2025	HOL-2	1	1	2	4	N	1,300
HOL28	28 Sept. 2025	HOL-2	0	0	3	3	SE	4,000

Notes:

E = east; HOL = height of land; m = metre; N = north; NE = northeast; NW = northwest; SE = southeast; SW = southwest

#### 3.4.3.4 INTERACTIONS, INCIDENTS, AND MORTALITIES

In 2025, two caribou interactions and one caribou mortality were documented at the Mine (Appendix G). The first interaction occurred on 18 May 2025, when a caribou was observed resting near a blast site. Because blasting preparations were underway, brief and intermittent deterrence was implemented to guide the animal away from the area. The caribou moved off safely with minimal intervention. A second interaction took place on 17 October 2025, when caribou were reported near the airstrip during foggy conditions. The Wildlife Response Team (WRT) monitored the area during incoming crew-change flights, although no deterrence was required because the caribou left on their own before aircraft arrived.

A caribou mortality occurred on 27 August 2025 during routine activities at Quarry D. Pre-blast environmental monitoring and quarry sweeps did not detect any wildlife, and post-blast checks also confirmed the area was clear at that time. The caribou carcass was later discovered by an equipment operator, prompting an immediate stop-work and investigation. Follow-up findings indicated the animal had likely entered the quarry after the final sweep or was concealed among quarry material, and evidence suggested the fatality resulted from the blast impact. Notifications were issued to the KitIA and regulators, and the carcass was relocated for natural scavenging. Corrective actions included strengthening pre-blast wildlife scans, improving coverage of blind-spot areas, completing a final sweep within 30 minutes of detonation, and repeating sweeps if a blast is delayed by more than one hour. Though the caribou mortality is unfortunate, the Mine was in compliance with the WMMP, and this incident is likely to have a negligible herd-level effect.

#### 3.4.3.5 WILDLIFE SIGHTINGS LOG AND INCIDENTAL OBSERVATIONS

In 2025, caribou were documented on 120 occasions in the wildlife sighting log. In 2025, the highest number of caribou observed by personnel occurred in May, with 0.44 caribou per staff member (Appendix M). The greatest number of events for caribou from camera monitoring in the Treatment zone and ZOI were in July and August.

Incidental observations of caribou by site personnel did not include the specific herd identification; however, we can infer from the caribou herd identification section (Section 4.4.3.2) which herd was more prevalent near the site when incidental observations were made. Most incidental observations of caribou occurred between May and July 2025, partially overlapping with the highest number of camera events that observed caribou, which was highest in July and August (Section 3.4.3.2).

Most camera events that recorded caribou occurred in the Treatment zone, where incidental observations by site employees would most likely occur. The highest number of individual observations of both Dolphin and Union and Beverly/Ahiak caribou in 2025 was in July. Caribou observed via the camera program in July 2025 were primarily of the Beverly/Ahiak herd, which indicates that the individuals observed by the personnel were likely mostly Beverly/Ahiak (Table 3.4-4; Appendix H).

TABLE 3.4-4 CARIBOU SIGHTINGS AND INCIDENTAL OBSERVATIONS, 2025

General Location	Months	Total Sightings <sup>a</sup>	Total Individuals <sup>b</sup>
Boston Area	June to July	5	17
Doris Area	April to August	38	126
Roberts Bay	April to August	6	22
TLR/TIA Area	March to October	17	84
Windy Road / Madrid	January to September	54	209
Wildlife Surveys	September	1	1

Notes:

TIA = Tailings Impoundment Area; TLR = Tail Lake Road

<sup>a</sup> Total sightings are not provided for incidental biologist observations because these totals are combined from several wildlife surveys.

<sup>b</sup> The total number of individuals provided may not always be representative of the true number of individuals recorded, as certain wildlife sightings may include double counting of the same individual(s).

Several reported sightings were likely the same individuals moving through the area (e.g., caribou reported in the same group size, general locations, and on the same date; Appendix H). Most sightings took place in May and July, and groups ranged in size from one to 20 individuals. In addition, one caribou was incidentally observed by biologists beside the main road while travelling between survey locations (Appendix I).

Most caribou sightings occurred in the Windy Road / Madrid area and in the Doris area. Seventeen caribou sightings occurred near the TIA / Tail Lake Road (TLR) area (Table 3.4-4). Caribou observed near the TIA were monitored to ensure that they left the area. None of the caribou were observed interacting with the tailings. Site personnel were made aware when caribou were sighted near active camp areas, and mitigation measures were implemented to avoid disturbing caribou until they had moved away from the active camp areas.

### 3.5 MUSKOX

Muskox inhabit Arctic tundra environments and occur in varying densities throughout Nunavut, including in the northern islands archipelago (Leclerc 2015). In recent years, possible declines in some muskox populations have been reported; the cause and extent of these declines are still uncertain but it is likely related to disease, climate, and anthropogenic pressures (Cuyler et al. 2020). Although muskox are not listed as a species of conservation concern, federally or in Nunavut, these concerns have led to increased monitoring and research efforts throughout the Arctic.

#### 3.5.1 FINAL ENVIRONMENTAL IMPACT STATEMENT PREDICTIONS

Disturbance to muskox within the RSA was predicted as a not significant and low magnitude residual effect in the Madrid-Boston FEIS (TMAC Resources 2017). Disruption of movement in the PDA was predicted as a low magnitude residual effect that was not significant.

### 3.5.2 METHODS

The potential effects of Mine-related activities on muskox are monitored through the wildlife camera monitoring program (see general wildlife camera methods in Section 3.2.1). Although detections of muskox have been documented since 2016, very few camera events are recorded each year.

### 3.5.3 RESULTS AND DISCUSSION

#### 3.5.3.1 CAMERA MONITORING

Between 1 September 2024 and 31 August 2025, 55 cameras were active for 13,986 days, averaging 254 active days per camera. Camera effort within monitoring zones for the most recent year is summarized by month in Table 3.3-1; effort summaries per camera are provided in Appendix F.

From 2016 through 2025, 65 events have been recorded of muskox (Figure 3.5-1; Appendix N). However, only two muskox events were recorded between 1 September 2024 and 31 August 2025 (Table 3.5-1). On 8 June 2025, both muskox events only occurred on camera 49 in the Control zone, detecting individuals in groups of 3 and 26.

#### **Facilities Camera Monitoring**

Two cameras have site-specific monitoring objectives for muskox: cameras 51 and 52 installed at the north and south end of the TIA. Camera 52 could not be located during the fall servicing period; therefore, no data is available from this camera. Between 1 September 2024 and 31 August 2025, no muskox events were recorded on motion-triggered or timed photo events at camera 51, which suggests that muskox use of the areas surrounding the TIA is infrequent.

#### 3.5.3.2 INTERACTIONS, INCIDENTS, AND MORTALITIES

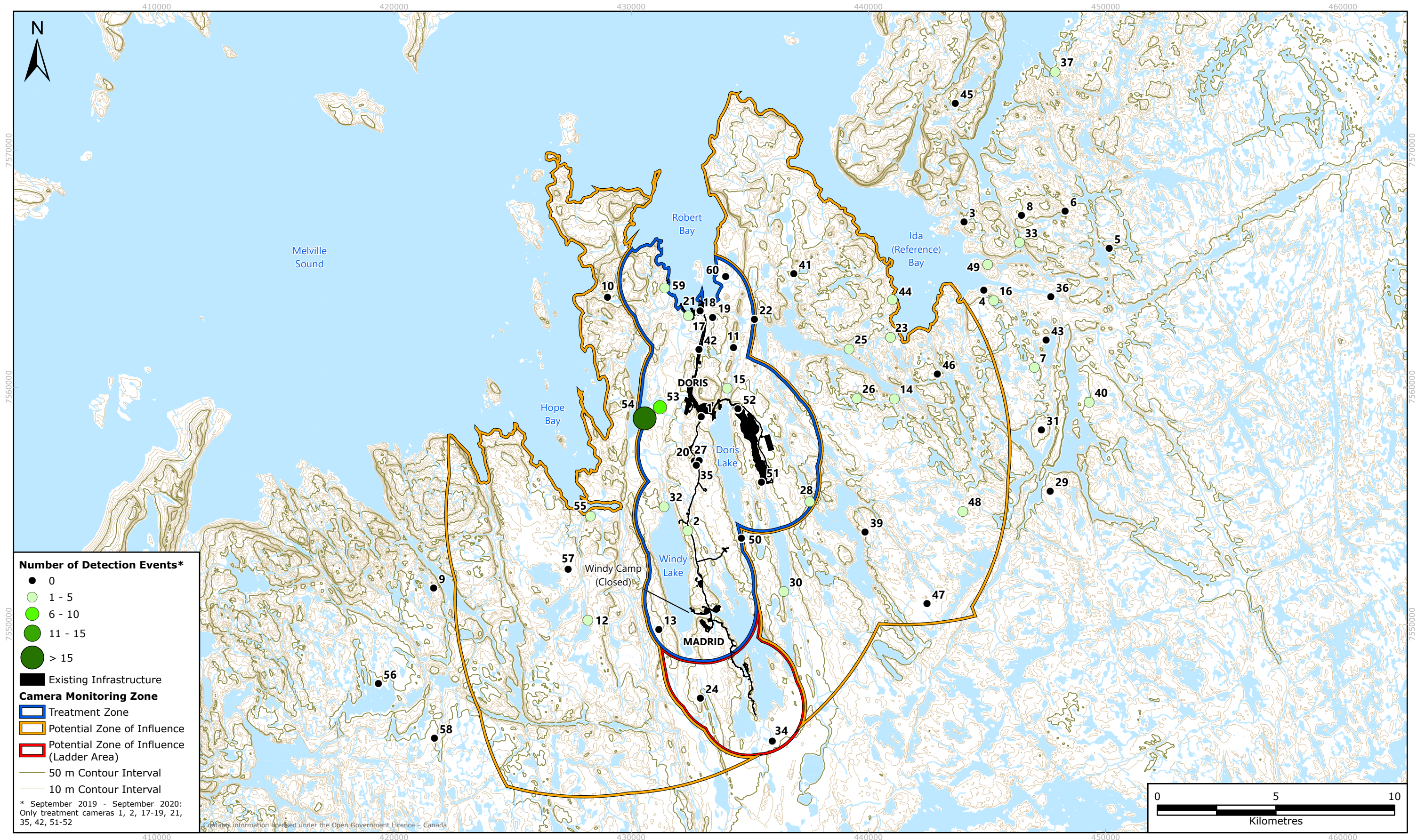
No muskox interactions, incidents, or mortalities were recorded in 2025 (Appendix G).

#### 3.5.3.3 WILDLIFE SIGHTINGS LOG AND INCIDENTAL OBSERVATIONS

In 2025, muskox were documented on 22 occasions in the wildlife sighting log (Table 3.5-2; Appendix H). Several sightings were likely repeats of the same group based on the date, location, and group size (Appendix H).

Muskox observations from the wildlife sightings log were corrected for the number of people onsite each month from 2009 to 2025 (Appendix O). Across years, sightings are variable and have occurred in all months. In 2025, corrected muskox observations peaked at 1.04 observations per field staff member. Peaks in muskox sightings typically represent sightings of larger herds, rather than more sightings of a few individuals.

FIGURE 3.5-1 DETECTIONS OF MUSKOX ON MOTION-TRIGGERED PHOTOS RECORDED BY REMOTE CAMERAS, DORIS AND MADRID AREAS, 2016 TO 2025



**TABLE 3.5-1 MUSKOX EVENTS RECORDED BY MONTH AT TREATMENT, ZONE OF INFLUENCE, AND CONTROL CAMERAS, SEPTEMBER 2024 TO AUGUST 2025**

Year	Month	Treatment		ZOI		Control	
		Camera Effort <sup>a</sup> Total Active Days	Number of Events	Camera Effort <sup>a</sup> Total Active Days	Number of Events	Camera Effort <sup>a</sup> Total Active Days	Number of Events
2024	September	492	-	464	-	465	-
	October	515	-	475	-	419	-
	November	473	-	460	-	420	-
	December	460	-	465	-	430	-
2025	January	445	-	456	-	434	-
	February	362	-	390	-	390	-
	March	378	-	403	-	433	-
	April	360	-	316	-	401	-
	May	317	-	193	-	295	-
	June	142	-	90	-	207	2
	July	525	-	366	-	306	-
	August	541	-	373	-	325	-
<b>Total</b>		<b>5,010</b>	<b>0</b>	<b>4,451</b>	<b>0</b>	<b>4,525</b>	<b>2</b>

Notes:

ZOI = Zone of Influence

- = No muskox detected.

<sup>a</sup> A total of 55 cameras were deployed across the Treatment, ZOI, and Control zones.

TABLE 3.5-2 MUSKOX SIGHTINGS AND INCIDENTAL OBSERVATIONS, 2025

General Location	Months	Total Sightings	Total Individuals <sup>a</sup>
Boston Area	June to August	2	16
Doris Area	October to December	4	104
Roberts Bay	August to November	5	62
Windy Road / Madrid	June to December	11	201

Note:

<sup>a</sup> The total number of individuals provided may not always be representative of the true number of individuals recorded, as certain wildlife sightings may include double counting of the same individual(s).

## 3.6 GRIZZLY BEAR

Grizzly bear is considered a species of Special Concern under COSEWIC and SARA (Government of Canada 2024). Additionally, grizzly bear is listed as Vulnerable in Nunavut (NatureServe 2025). Barren-ground grizzly bears are at the most northern and eastern limits of the continental grizzly bear range. Consequently, grizzly bears in the central Arctic have the largest annual home ranges and likely have the lowest densities of any grizzly bear population studied in North America (McLoughlin 1999). The RSA is located within a 200,000 square kilometre (km<sup>2</sup>) portion of the northwestern mainland of Nunavut that was estimated in 2002 to contain 800 grizzly bears (TMAC Resources 2017).

### 3.6.1 FINAL ENVIRONMENTAL IMPACT STATEMENT PREDICTIONS

The residual effects of disturbance and disruption of movement on grizzly bear within the RSA were predicted to be not significant and low magnitude in the Madrid-Boston FEIS (TMAC Resources 2017).

### 3.6.2 METHODS

The potential effects of Mine-related activities on grizzly bear are monitored through the wildlife camera monitoring program (see general wildlife camera methods in Section 3.2.1). Camera data are statistically analyzed every 3 years to investigate potential differences in the occurrence of grizzly bear within the Treatment zone, Control zone, and ZOI, and to monitor areas of possible bear attractants, such as the Roberts Bay Waste Management Facility. The next camera data analysis will be in the 2026 annual compliance report. Bears may be attracted to specific infrastructure—despite mitigation measures to reduce the attractiveness—resulting in these cameras recording more events than other areas at/near the Mine.

### 3.6.3 RESULTS AND DISCUSSION

#### 3.6.3.1 CAMERA MONITORING

Between 1 September 2024 and 31 August 2025, a total of 55 cameras were active for 13,986 days, averaging 254 active days per camera. Camera effort within monitoring zones for the most recent year is summarized by month in Table 3.3-1; effort summaries per camera are provided in Appendix F. A brief summary of the images and grizzly bear events recorded across all cameras during the current periods is provided below. Data from facility monitoring cameras are also included in the summary below.

A total of 100 events of grizzly bear were recorded between 1 September 2024 and 31 August 2025 (Table 3.6-1), and a total of 1,052 events were recorded of grizzly bear between 2016 and 2025 (Figure 3.6-1; Appendix P). Grizzly bear events were primarily recorded in July 2025, which included 34% of all grizzly bear events. Overall, grizzly bear events were most common in the Treatment zone, representing 39% of total grizzly bear events, followed by the ZOI, representing 35% of total grizzly bear events. Temporally, grizzly bears were observed between April and October, which is consistent with when bears are active and not hibernating. Since monitoring began, the annual number of grizzly bear events has ranged from 33 to 190. One hundred (100) events in 2025 is within the expected range of results. The annual differences may be a result of a number of factors, including year-to-year variation in natural food availability (e.g., berries), late or early snowmelt, drought conditions, spring timing, wildfire extents, and normal population dynamics (e.g., cub survival rates, natural mortality, dispersal of subadults). Additionally, differences between functional camera days per year also likely contributed to the differences in captured events.

### Facilities Camera Monitoring

Under the current camera design, there are five cameras that have site-specific monitoring objectives for grizzly bear: cameras 18 and 21 at the Roberts Bay Waste Management Facility, camera 22 at the Roberts Lake Outflow / Fish Fence, and cameras 51 and 52 at the north and south ends of the TIA. However, because camera 52 could not be located during fall camera servicing, no data are available from this camera. Camera 21 was improperly deployed and ultimately produced photos with inaccurate dates, and was therefore omitted from the camera data analysis. The camera servicing plan described in Section 2.2.3 should prevent these reoccurrences of poor camera data.

Between 1 September 2024 and 31 August 2025, a total of 16 grizzly bear events were captured on facility monitoring cameras (Figure 3.6-1). Between 11 July and 24 August 2025, all grizzly bear events occurred at the Roberts Lake Outflow / Fish Fence and were captured on camera 22. Events consisted of one to three individuals that were observed either walking, standing, resting, or inspecting the cameras. No grizzly bear events were recorded on cameras 18 and 51. In 2025, there were more grizzly bear events recorded at facility monitoring cameras than in the previous year. However, in 2025, events occurred in different locations than in 2023 and 2024, which had low levels of events at the Roberts Lake Outflow / Fish Fence and at the TIA.

#### 3.6.3.2 INTERACTIONS, INCIDENTS, AND MORTALITIES

In 2025, 11 grizzly bear interactions were recorded at the Mine (Appendix G). Most interactions involved bears occurring near the camp, access roads, or operational areas, requiring monitoring or deterrence to maintain worker safety and minimize habituation risk.

Two early-season interactions involved a female bear with two cubs near Doris Camp and the overburden areas (16 June and 16 July). In both cases, the WRT implemented light deterrence, including the use of bear bangers, to move the family group away from infrastructure. Deterrence was effective, and the bears returned to the surrounding tundra.

**TABLE 3.6-1 GRIZZLY BEAR EVENTS RECORDED BY MONTH AT TREATMENT ZONE, ZONE OF INFLUENCE, AND CONTROL ZONE CAMERAS, SEPTEMBER 2024 TO AUGUST 2025**

Year	Month	Treatment		Zone of Influence		Control	
		Camera Effort <sup>a</sup> Total Active Days	Number of Events	Camera Effort <sup>a</sup> Total Active Days	Number of Events	Camera Effort <sup>a</sup> Total Active Days	Number of Events
2024	September	492	4	464	8	465	6
	October	515	3	475	4	419	5
	November	473	-	460	-	420	-
	December	460	-	465	-	430	-
2025	January	445	-	456	-	434	-
	February	362	-	390	-	390	-
	March	378	-	403	-	433	-
	April	360	-	316	1	401	-
	May	317	-	193	-	295	5
	June	142	-	90	1	207	1
	July	525	11	366	17	306	6
	August	541	21	373	4	325	3
<b>Total</b>		<b>5,010</b>	<b>39</b>	<b>4,451</b>	<b>35</b>	<b>4,525</b>	<b>26</b>

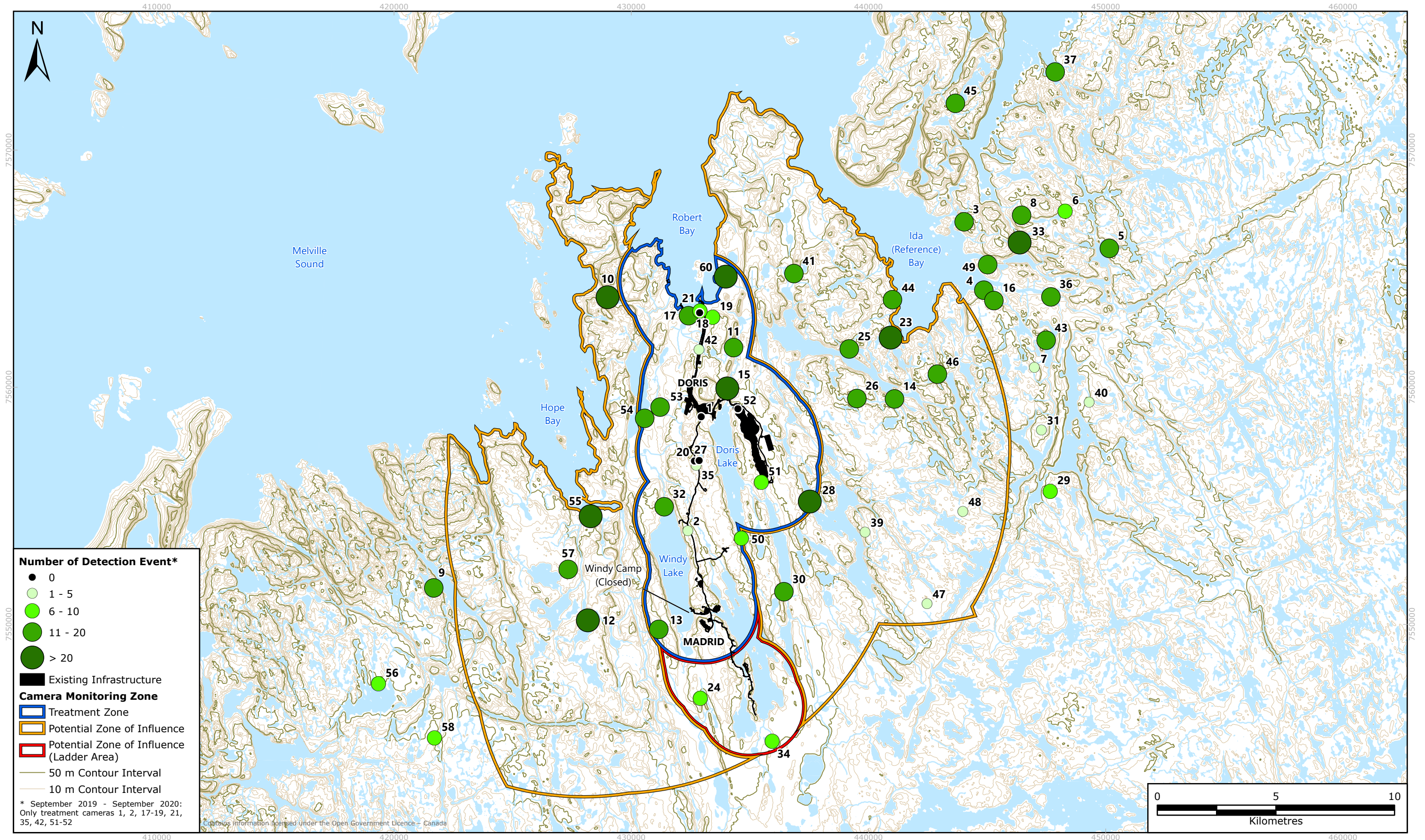
Notes:

ZOI = Zone of Influence

- = No grizzly bear detected.

<sup>^</sup> A total of 55 cameras were deployed across the Treatment, ZOI, and Control zones.

FIGURE 3.6-1 DETECTIONS OF GRIZZLY BEAR ON MOTION-TRIGGERED PHOTOS RECORDED BY REMOTE CAMERAS, DORIS AND MADRID AREAS, 2016 TO 2025



During the late summer and fall (September to October), several individual grizzly bears were observed near the geotech shop, helipad, airstrip, and pumphouse. In two cases (8 September and 4 October), drone-based deterrence was briefly used to redirect bears away from high-use areas. In all other instances, bears were monitored by the WRT until they naturally moved away from the camp, roads, or work areas without requiring active intervention.

All interactions were resolved without incident, and all deterrence efforts were successful. No corrective or preventive measures or actions were identified, and no mortalities involving grizzly bears were recorded in 2025.

### 3.6.3.3 WILDLIFE SIGHTINGS LOG AND INCIDENTAL OBSERVATIONS

In 2025, grizzly bears were documented on 42 occasions on the wildlife sighting log. Grizzly bear observations from the wildlife sightings log were corrected for the number of people onsite each month from 2009 to 2025 (Appendix Q). Like in previous years, grizzly bear sightings peaked in July and August, with the highest proportion of grizzly bear per onsite personnel being recorded in July at 0.10 (Appendix Q; Table 3.6-2; Appendix H).

TABLE 3.6-2 GRIZZLY BEAR SIGHTINGS AND INCIDENTAL OBSERVATIONS, 2025

General Location	Months	Total Sightings	Total Individuals <sup>a</sup>
Doris Area	May to October	15	25
Naartok	June to September	5	9
Roberts Bay	July to October	7	15
TLR/TIA Area	July to October	6	13
Windy Road / Madrid	June to October	9	17

Notes:

TIA = Tailings Impoundment Area; TLR = Tail Lake Road

<sup>a</sup> The total number of individuals provided may not always be representative of the true number of individuals recorded, as certain wildlife sightings may include double counting of the same individual(s).

Sightings occurred between May and October, with most events recorded in July (Appendix H). The latest sighting occurred on 19 October 2025 (Appendix H). Most of the sightings were of either a single bear or three bears (Appendix H). Six sightings were recorded near the TIA/TLR; however, no bears were noted interacting with the tailings. No grizzly bears were incidentally observed by biologists in 2024 (Appendix I).

## 3.7 WOLVERINE

The wolverine is considered a species of Special Concern under COSEWIC and SARA (Government of Canada 2025). Additionally, wolverine is listed as Vulnerable in Nunavut (NatureServe 2025). The geographic range of the wolverine includes the West Kitikmeot region of Nunavut (TMAC Resources 2017) but due to the reliance of wolverine on caribou as their main food source, the distribution and abundance of wolverine are affected by trends in caribou populations (Banci and Spicker 2016).

### 3.7.1 FINAL ENVIRONMENTAL IMPACT STATEMENT PREDICTIONS

In the Madrid-Boston FEIS (TMAC Resources 2017), the residual effects of the disruption of movement and attraction in the PDA were predicted to be not significant and low magnitude for wolverine.

### 3.7.2 METHODS

The potential effects of Mine-related activities on wolverine are monitored through the wildlife camera monitoring program (see general wildlife camera methods in Section 3.2.1), as well as through the Wildlife Sightings/Reporting program. Camera data are statistically analyzed every 3 years to investigate for potential differences in the occurrence of wolverine within the Treatment zone, Control zone, and ZOI areas.

### 3.7.3 RESULTS AND DISCUSSION

#### 3.7.3.1 CAMERA MONITORING

Between 1 September 2024 and 31 August 2025, 55 cameras were active for 13,986 days, averaging 254 active days per camera. Camera effort within monitoring zones for the most recent year is summarized by month in Table 3.3-1; effort summaries per camera are provided in Appendix R. A summary of the images and wolverine events recorded across all cameras during the current period is provided below. Data from cameras with specific monitoring objectives are also included below.

A total of 122 events were recorded for wolverine between 2016 and 2025 (Figure 3.7-1; Appendix R). Four wolverine events were recorded between 1 September 2024 and 31 August 2025 (Table 3.7-1). Wolverine events were recorded in all zones and were always of one individual. Wolverine events were lower in 2024 and 2025, with only two in 2024, when compared to previous years, which had 11 events occurring from September 2022 to September 2023. Historically, most observations have occurred within the Control zone, but there was no consistent pattern in terms of observation locations in 2025 (Figure 3.7-1).

#### **Facilities Camera Monitoring**

Under the current camera design, five cameras have a site-specific monitoring objective for wolverine (the same cameras with site-specific monitoring objectives for grizzly bear): camera 18 and camera 21 at the Roberts Bay Waste Management Facility, camera 22 at the Roberts Lake Outflow / Fish Fence, and cameras 51 and 52 at the north and south ends of the TIA. However, as mentioned in Section 3.6.3.1, cameras 21 and 52 did not provide any data for this monitoring period. No wolverine events were recorded on facility cameras between 1 September 2024 and 31 August 2025.

**TABLE 3.7-1 WOLVERINE EVENTS RECORDED BY MONTH AT TREATMENT, ZONE OF INFLUENCE, AND CONTROL CAMERAS, SEPTEMBER 2024 TO AUGUST 2025**

Year	Month	Treatment		ZOI		Control	
		Camera Effort <sup>a</sup> Total Active Days	Number of Events	Camera Effort <sup>a</sup> Total Active Days	Number of Events	Camera Effort <sup>a</sup> Total Active Days	Number of Events
2024	September	492	-	464	-	465	-
	October	515	-	475	-	419	-
	November	473	-	460	-	420	-
	December	460	-	465	-	430	-
2025	January	445	-	456	-	434	-
	February	362	-	390	-	390	-
	March	378	-	403	-	433	-
	April	360	-	316	1	401	-
	May	317	1	193	-	295	1
	June	142	-	90	-	207	-
	July	525	-	366	-	306	-
	August	541	-	373	1	325	-
<b>Total</b>		<b>5,010</b>	<b>1</b>	<b>4,451</b>	<b>2</b>	<b>4,525</b>	<b>1</b>

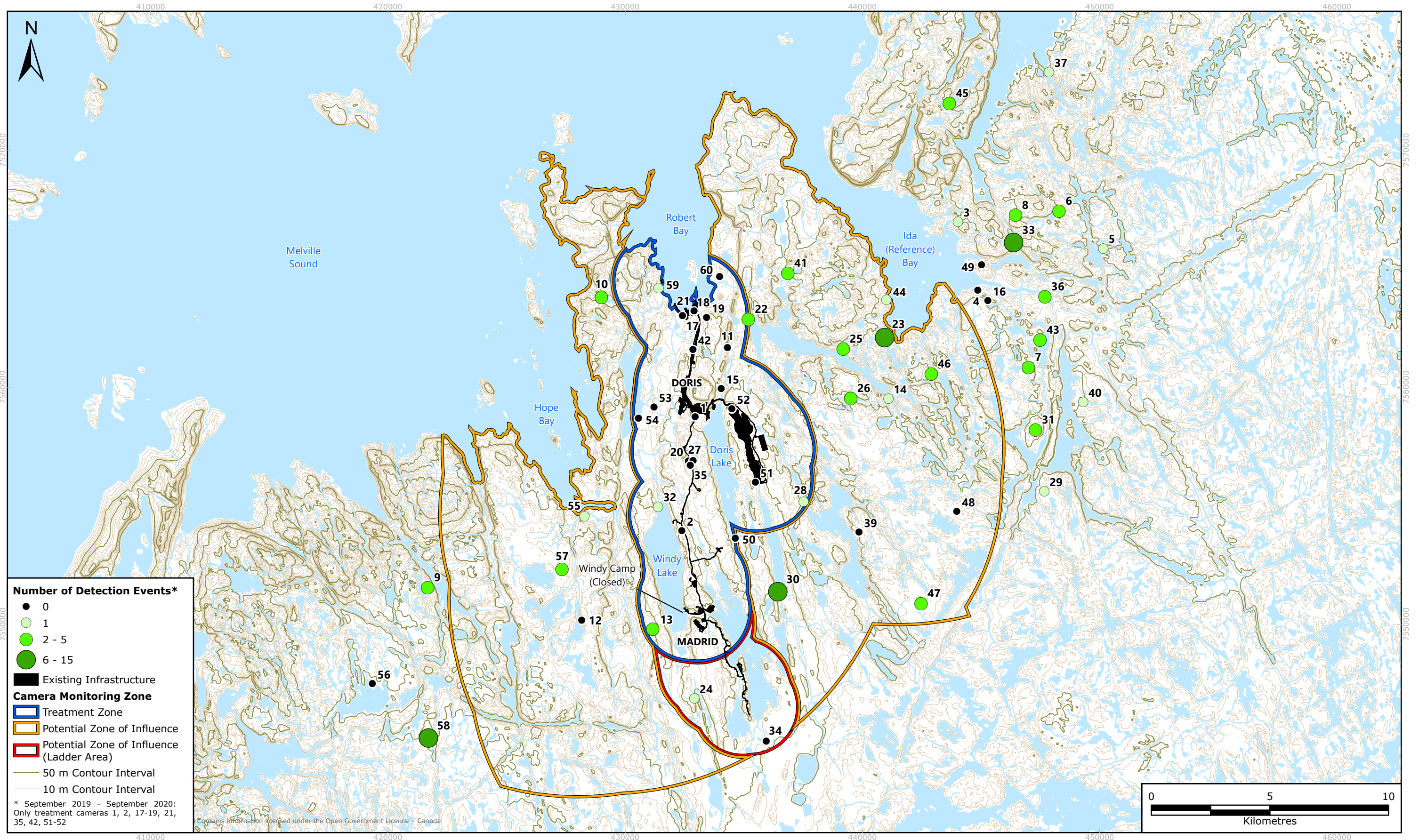
Notes:

ZOI = Zone of Influence

- = No wolverine detected.

<sup>a</sup> A total of 55 cameras were deployed across the Treatment, ZOI, and Control zones.

FIGURE 3.7-1 DETECTIONS OF WOLVERINE ON MOTION-TRIGGERED PHOTOS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, 2016 TO 2025



### 3.7.3.2 INTERACTIONS, INCIDENTS, AND MORTALITIES

No wolverine interactions, incidents, or mortalities were recorded in 2025 (Appendix G).

### 3.7.3.3 WILDLIFE SIGHTINGS LOG AND INCIDENTAL OBSERVATIONS

In 2025, wolverines were documented on four occasions on the wildlife sighting log (Table 3.7-2; Appendix H). No wolverines were incidentally observed by biologists in 2025 (Appendix I).

**TABLE 3.7-2 WOLVERINE SIGHTINGS AND INCIDENTAL OBSERVATIONS, 2025**

General Location	Months	Total Sightings	Total Individuals <sup>a</sup>
Windy Road / Madrid	January to November	4	4

Note:

<sup>a</sup> The total number of individuals provided may not always be representative of the true number of individuals recorded, as certain wildlife sightings may include double counting of the same individual(s).

Wolverines have been recorded variably across years, with sightings most commonly occurring in winter and spring (Appendix H). Very few individual wolverines are typically seen in a given year, compared to other large mammal VECs (see Sections 3.4 to 3.6).

## 3.8 UPLAND BREEDING BIRDS

Upland breeding birds considered in the WMMP consist of passerines, shorebirds, and ptarmigans. In 2021, the upland bird program for the purposes of measuring effects of the Mine on birds and bird habitat was officially discontinued, as discussed in the WMMP (Agnico Eagle 2025). Currently, upland bird monitoring for the Mine is included in the following two programs, neither of which were completed in 2025:

- Program for Regional and International Shorebird Monitoring (PRISM) Surveys: an upland bird monitoring program specific to identifying breeding birds within tundra ecosystems that contributes to the PRISM program for the Canadian Arctic led by CWS, as described in the WMMP (Agnico Eagle 2025); and
- TIA upland bird monitoring: an upland bird monitoring program completed every 2 years to monitor bird use of the habitat around the TIA (Agnico Eagle 2025) and Ogama Lake (Control sites; sites were established in 2018).

### 3.8.1 FINAL ENVIRONMENTAL IMPACT STATEMENT PREDICTIONS

There were two potential residual effects for upland breeding birds, namely disturbance and mortality, in the Madrid-Boston FEIS predictions. These were assessed as a not significant, negligible magnitude effect of disturbance in the Madrid-Boston LSA, and a not significant, low magnitude effect of direct mortality in the PDA (TMAC Resources 2017). Despite these assessments, upland breeding bird monitoring currently occurs every 2 years at the TIA and at the associated Control site of Ogama Lake (Project Certificate No. 009 Term and Condition 26; NIRB 2018).

TIA upland bird monitoring and PRISM surveys did not occur in 2025; therefore, methods and results are not provided for these surveys.

### 3.8.2 METHODS

In 2025, the potential effects of Mine-related activities on upland breeding birds were determined by the interactions, incidents, and mortalities program, as well as the wildlife sightings log. General methods for these programs are outlined in Section 3.2.

### 3.8.3 RESULTS AND DISCUSSION

#### 3.8.3.1 INTERACTIONS, INCIDENTS, AND MORTALITIES

In 2025, three ptarmigan mortalities were documented at the Mine between February and April (Appendix G). One mortality involved a ptarmigan found dead beside a roadway in early February. In March, a vehicle-related mortality occurred when ptarmigan flushed across Windy Road and one bird collided with a passing vehicle. A third mortality in April involved a carcass observed that had been partially scavenged. No interaction events were recorded and no response actions nor corrective measures were required for any of the mortalities.

#### 3.8.3.2 WILDLIFE SIGHTINGS LOG AND INCIDENTAL OBSERVATIONS

In 2025, there were 54 observations of upland breeding birds, as recorded in the wildlife sightings log (Table 3.8-1; Appendix H). As in 2024, Doris Area had the highest number of incidental observations. Of the eight upland bird species or species groups recorded in the wildlife sightings log, willow ptarmigan (*Lagopus lagopus*) and unidentified ptarmigan species (*Lagopus* sp.) were the most frequently observed (Tables 3.8-1 and 3.8-2). Incidental observations made by biologists throughout the Study Area in September included two willow ptarmigan, three American pipit (*Anthus rubescens*), five snow bunting (*Plectrophenax nivalis*), and one horned lark (*Eremophila alpestris*; Tables 3.8-1 and 3.8-2; Appendix I).

**TABLE 3.8-1 UPLAND BIRD SIGHTINGS AND INCIDENTAL OBSERVATIONS BY LOCATION, 2025**

General Location	Months	Total Sightings	Total Individuals <sup>a</sup>
Boston Area	June	2	4
Doris Area	January to October	24	373
Naartok	March to April	6	150
Roberts Bay	April to June	2	3
TLR/TIA Area	January to July	5	44
Windy Road / Madrid	January to October	15	174
Wildlife Surveys	September	5	11

Notes:

TIA = Tailings Impoundment Area; TLR = Tail Lake Road

- = Total sightings are not provided for incidental biologist observations because these totals are combined from several wildlife surveys.

<sup>a</sup> The total number of individuals provided may not always be representative of the true number of individuals recorded, as certain wildlife sightings may include double counting of the same individual(s).

TABLE 3.8-2 UPLAND BIRD SIGHTINGS AND INCIDENTAL OBSERVATIONS BY SPECIES, 2025

Common Name	Scientific Name	Total Individuals
Willow Ptarmigan	<i>Lagopus lagopus</i>	539
Ptarmigan Species	<i>Lagopus</i> sp.	179
American Tree Sparrow	<i>Spizelloides arborea</i>	2
Savannah Sparrow	<i>Passerculus sandwichensis</i>	2
American Pipit	<i>Anthus rubescens</i>	Unknown
American Robin	<i>Turdus migratorius</i>	2
Lapland Longspur	<i>Calcarius lapponicus</i>	1
Snow Bunting	<i>Plectrophenax nivalis</i>	21
Horned Lark	<i>Eremophila alpestris</i>	2

### 3.8.3.3 SPECIES OF CONSERVATION CONCERN

No upland bird species of conservation concern were observed in 2025. The lack of species of conservation concern observations in 2025, as compared to 2024, is likely accounted for by the lack of targeted upland breeding bird surveys completed by biologists in 2025.

## 3.9 WATERBIRDS

Waterbird monitoring for the Doris compliance program is currently completed every 2 years, with surveys last being completed in 2024. Waterbird field surveys for the Doris compliance program have been scaled back from previous years, after comprehensive analyses of the dataset from 2006 to 2018 (TMAC Resources 2019) and discussion with CWS. Waterbird monitoring currently includes the following two survey programs, neither of which were completed in 2025:

- Regional shoreline monitoring, which consists of ground surveys along the shorelines of waterbodies at varying distances from the site infrastructure (sites were established in 2022); and
- TIA shoreline monitoring, which consists of ground surveys for the detection of waterbirds and as supplemental surveys to the TIA PRISM monitoring (Section 3.9) along the shorelines of the TIA (Treatment sites) and Ogama Lake (Control sites; sites were established in 2018).

Water quality is monitored at the TIA, in accordance with Project Certificate No. 009 Commitment 31 and Term and Condition 26 (NIRB 2018). If water quality exceeds guidelines, a toxicological risk assessment is required to determine if it is safe for birds to use or nest on the TIA. If that assessment determines that there is a risk to waterbird health, then waterbirds require deterrence from the TIA. Water quality was monitored at the TIA in 2025 and did not exceed guidelines for wildlife; therefore, no risk assessment was warranted (Section 3.10.3.3; Appendix S).

### 3.9.1 FINAL ENVIRONMENTAL IMPACT STATEMENT PREDICTIONS

In the Madrid-Boston FEIS, the residual effect of disturbance in the LSA for waterbirds was predicted to be not significant and of negligible magnitude, and the residual effect of direct mortality in the PDA was predicted to be not significant and of low magnitude (TMAC Resources 2017). Despite these predictions, waterbird monitoring currently occurs at the TIA and the associated Control site of Ogama Lake (Project Certificate No. 009 Term and Condition 26; NIRB 2018).

TIA upland bird monitoring and PRISM surveys did not occur in 2025; therefore, methods and results for these programs are not provided in this Report.

### 3.9.2 METHODS

In 2025, the potential effects of Mine-related activities on waterbirds were determined by monitoring water quality in the TIA (Section 3.9.3); the interactions, incidents, and mortalities program; and the wildlife sightings log. General methods for these programs are outlined in Section 3.2.

#### 3.9.2.1 WATER QUALITY MONITORING IN THE TAILINGS IMPOUNDMENT AREA FOR WATERBIRDS

As part of the existing water licence requirements and WMMP commitments (Agnico Eagle 2025), onsite staff sampled water quality in the TIA at location TL1 almost every week in 2025 (n = 48). Water quality monitoring results were compared to the Canadian Council of Ministers of the Environment's (CCME's) *Water Quality Guidelines for the Protection of Agriculture—Livestock*, as those are the guidelines that are available and most relevant for wildlife (CCME 2021).

### 3.9.3 RESULTS AND DISCUSSION

#### 3.9.3.1 WATER QUALITY MONITORING IN THE TAILINGS IMPOUNDMENT AREA FOR WATERBIRDS

Table 3.9-1 presents summary data for water quality parameters measured at TL1 in the TIA in 2025 and the corresponding CCME water quality guidelines (CCME 2021). The comparison of maximum concentrations to respective guideline values indicates that water quality in the TIA meets guidelines for wildlife. Therefore, no parameter was screened for further evaluation in an ecological risk assessment. Detailed water quality monitoring results are presented in Appendix S.

#### 3.9.3.2 INTERACTIONS, INCIDENTS, AND MORTALITIES

No waterbird interactions, incidents, or mortalities were recorded in 2025 (Appendix G).

#### 3.9.3.3 WILDLIFE SIGHTINGS LOG AND INCIDENTAL OBSERVATIONS

In 2025, there were 64 observations of waterbirds recorded in the wildlife sightings log (Table 3.9-2; Appendix H). As in 2024, Windy Road / Madrid area had the highest number of incidental observations. Incidental observations made by biologists throughout the Study Area in September included 3 white-fronted goose (*Anser albifrons*), 32 cackling goose (*Branta hutchinsii*), 65 Canada goose (*Branta canadensis*), and 3 sandhill crane (*Antigone canadensis*; Table 3.9-2; Appendix I).

**TABLE 3.9-1 SUMMARY STATISTICS FOR WATER QUALITY PARAMETERS WITH CANADIAN COUNCIL OF MINISTERS OF THE ENVIRONMENT GUIDELINES AT THE TAILINGS IMPOUNDMENT AREA (TL1), 2025**

Parameter	CCME Water Quality Criteria—Livestock <sup>a</sup> (mg/L)	Mean (mg/L)	Standard Deviation (mg/L)	Maximum (mg/L)	Selected for Further Assessment?
Arsenic (As)—Total	0.025	0.00229	0.00029	0.00325	No
Cadmium (Cd)—Total	0.08	0.00003	0.00001	0.00005	No
Copper (Cu)—Total <sup>b</sup>	5	0.01104	0.00199	0.01550	No
Lead (Pb)—Total	0.1	0.00026	0.00005	0.00050	No
Mercury (Hg)—Total	0.003	0.00001	0.0000	0.00001	No
Nickel (Ni)—Total	1	0.00565	0.00105	0.00812	No
Selenium (Se)—Total	0.05	0.00027	0.00006	0.00050	No
Zinc (Zn)—Total	50	0.01563	0.00303	0.03000	No

Notes:

CCME = Canadian Council of Ministers of the Environment; mg/L = milligram per litre

<sup>a</sup> CCME Water Quality Guidelines for the Protection of Agriculture—Livestock (CCME 2021).

<sup>b</sup> Guideline is variable and 5 mg/L for poultry was used from the Canadian Council of Resource and Environment Ministers' 1987 (updated in 2008) Canadian Water Quality Guidelines.

**TABLE 3.9-2 WATERBIRD SIGHTINGS AND INCIDENTAL OBSERVATIONS BY LOCATION, 2025**

Species	Months	Total Sightings <sup>a</sup>	Total Individuals <sup>a,b</sup>
Boston Area	June	4	18
Doris Area	May to August	6	56
Naartok	March to June	2	5
Roberts Bay	June to August	5	118
TLR/TIA Area	March to October	12	26
Windy Road / Madrid	May to September	35	341
Wildlife Surveys	September	8	103

Notes:

TIA = Tailings Impoundment Area; TLR = Tail Lake Road; VEC = valued ecosystem component

- = Total sightings are not provided for incidental biologist observations because these totals are combined from several wildlife surveys.

<sup>a</sup> The counts also include gull species that are included as part of the nest predator VEC as well.

<sup>b</sup> The total number of individuals provided may not always be representative of the true number of individuals present, as certain wildlife sightings may include double counting of the same individual(s).

Of the 16 waterbird species or species groups recorded in the wildlife sightings log, Canada goose (*Branta canadensis*) was the most frequently observed species (Table 3.9-3).

**TABLE 3.9-3 WATERBIRD SIGHTINGS AND INCIDENTAL OBSERVATIONS BY SPECIES, 2025**

Common Name	Scientific Name	Total Individuals
Trumpeter Swan	<i>Cygnus buccinator</i>	2
Tundra Swan	<i>Cygnus columbianus</i>	5
Greater White-Fronted Goose	<i>Anser albifrons</i>	67
Snow Goose	<i>Anser caerulescens</i>	44
Cackling Goose	<i>Branta hutchinsii</i>	118
Canada Goose	<i>Branta canadensis</i>	209
Surf Scoter	<i>Melanitta perspicillata</i>	8
Common Eider	<i>Somateria mollissima</i>	1
Northern Pintail	<i>Anas acuta</i>	5
Common Merganser	<i>Mergus merganser</i>	15
Red-Throated Loon	<i>Gavia stellata</i>	5
Yellow-Billed Loon	<i>Gavia adamsii</i>	5
Sandhill Crane	<i>Antigone canadensis</i>	69
Whooping Crane	<i>Grus americana</i>	3
Shorebird Species	<i>Charadriiformes</i> sp.	7
Herring Gull	<i>Larus argentatus</i>	1

#### 3.9.3.4 OBSERVATIONS FROM ABOARD VESSELS

Wildlife sighting logs were completed along shipping routes by shipping vessel operators as part of the Wildlife Sightings/Reporting Program (Appendix U). The onboard observations section of the Wildlife Sightings/Reporting Program details are described in Section 3.12. Between the two vessels that serviced the Mine, waterbirds were observed on 24 occasions in September 2025 (Table 3.9-4). Goose species were the most frequently observed waterbirds from vessel surveys, with large numbers of unidentified *Branta* geese recorded alongside smaller numbers of confirmed Canada geese. Additional details regarding waterbird observations from aboard vessels are provided in Appendix U.

#### 3.9.3.5 SPECIES OF CONSERVATION CONCERN

In 2025, one waterbird species of conservation concern with the potential to occur at the Mine was observed, namely common eider. The common eider observation occurred in the Boston Area and was documented in the wildlife sightings log (Appendix H).

TABLE 3.9-4 WATERBIRD OBSERVATIONS FROM ABOARD VESSELS, 2025

Common Name	Scientific Name	Total Individuals
Common Loon	<i>Gavia immer</i>	1
Double-Crested Cormorant	<i>Nannopterum auritum</i>	1
Greater Scaup	<i>Aythya marila</i>	12
Canada Goose	<i>Branta canadensis</i>	11
Goose Species (Cackling or Canada)	<i>Branta</i> sp.	100
Red-Breasted Merganser	<i>Mergus serrator</i>	25
Northern Fulmar	<i>Fulmarus glacialis</i>	14
Glaucous Gull	<i>Larus hyperboreus</i>	4
Iceland Gull	<i>Larus glaucoides</i>	2
Gull Species	<i>Larus</i> sp.	14
Snowy Owl	<i>Bubo scandiacus</i>	1

### 3.10 RAPTORS

Raptor monitoring for the Doris compliance program was discontinued following a comprehensive statistical analysis of raptor nesting data to test Madrid-Boston FEIS predictions (ERM 2019), and discussion with ECCC and the Government of Nunavut. In 2024, raptors were monitored through methods common to multiple VECs (Section 3.3).

Occupancy surveys of raptor territories in Madrid North were not completed in 2025 because construction did not occur in the area during the raptor breeding period. As part of Condition 27 for Project Certificate No. 009 (NIRB 2018), these surveys are required if construction occurs during the raptor breeding period.

#### 3.10.1 FINAL ENVIRONMENTAL IMPACT STATEMENT PREDICTIONS

The residual effect of disturbance in the RSA and direct mortality in the PDA for raptors was predicted to be not significant and of low magnitude in the Madrid-Boston FEIS (TMAC Resources 2017).

#### 3.10.2 METHODS

Raptors were monitored in 2025 through the Wildlife Sightings/Reporting Program. General methods for these programs are described in Section 3.2.

#### 3.10.3 RESULTS AND DISCUSSION

##### 3.10.3.1 INTERACTIONS, INCIDENTS, AND MORTALITIES

No raptor interactions, incidents, or mortalities were recorded in 2025 (Appendix G).

### 3.10.3.2 WILDLIFE SIGHTINGS LOG AND INCIDENTAL OBSERVATIONS

In 2025, 43 observations of raptors were recorded on the wildlife sightings log (Table 3.10-1; Appendix H). Raptors were most often recorded in the Doris Area followed by the Windy Road / Madrid area. A similar number of species sightings were recorded in 2025, compared to 2024 (n=53). Of the eight raptor species recorded in the wildlife sightings log, peregrine falcon (*Falco peregrinus*) was the most frequently observed species (Table 3.10-2). Incidental observations made by biologists throughout the Study Area in September included four rough-legged hawk (*Buteo lagopus*), one peregrine falcon (*Falco peregrinus*), and one Eurasian species, a common kestrel (*Falco tinnunculus*; Table 3.10-2; Appendix I).

**TABLE 3.10-1 RAPTOR SIGHTINGS AND INCIDENTAL OBSERVATIONS BY LOCATION, 2025**

General Location	Months	Total Sightings	Total Individuals <sup>a</sup>
Boston Area	June to July	4	5
Doris Area	January to November	16	21
Naartok	May	1	1
Roberts Bay	January to March	2	4
TLR/TIA Area	January to October	6	8
Windy Road / Madrid	April to October	14	19
Wildlife Surveys	September	6	7

Notes:

TIA = Tailings Impoundment Area; TLR = Tail Lake Road

- = Total sightings are not provided for incidental biologist observations because these totals are combined from several wildlife surveys.

<sup>a</sup> The total number of individuals provided may not always be representative of the true number of individuals recorded, as certain wildlife sightings may include double counting of the same individual(s).

**TABLE 3.10-2 RAPTOR SIGHTINGS AND INCIDENTAL OBSERVATIONS BY SPECIES, 2025**

Common Name	Scientific Name	Total Individuals
Golden Eagle	<i>Aquila chrysaetos</i>	10
Bald Eagle	<i>Haliaeetus leucocephalus</i>	6
Rough-Legged Hawk	<i>Buteo lagopus</i>	5
Gyrfalcon	<i>Falco rusticolus</i>	4
Peregrine Falcon	<i>Falco peregrinus</i>	15
Short-Eared Owl	<i>Asio flammeus</i>	2
Snowy Owl	<i>Bubo scandiacus</i>	3
Common Raven <sup>a</sup>	<i>Corvus corax</i>	13

Note:

<sup>a</sup> Common raven is considered a functional raptor in Nunavut due to similar nesting and habitat requirements.

### 3.10.3.3 SPECIES OF CONSERVATION CONCERN

In 2025, both raptor species of conservation concern with the potential to occur at the Mine were observed: 10 golden eagles and two short-eared owls. Golden eagles were observed in the Doris, TLR/TIA, and Windy Road / Madrid areas. Observations of golden eagles were made from both the ground and the air and flying, resting, and hunting behaviours were observed. Group sizes ranged from single individuals to pairs. The two short-eared owls were observed on separate occasions in the Doris Area and behaviours included flying, perching, and hunting. No nests of either species were observed.

## 3.11 FALL AVIAN MIGRATION STAND WATCH SURVEYS

### 3.11.1 PURPOSE AND CONTEXT

To understand if and how birds are moving through the area, stand watch surveys were completed for raptors and migrating birds in 2025. During the review of the Madrid-Boston FEIS, the Mine committed to completing these additional baseline surveys prior to construction of the wind turbines (NIRB Certificate 009, Commitment 7). The objectives of these avian migration surveys are to assess which birds are migrating through the area and how high they are flying—to determine if there is a potential for direct interactions with wind turbines.

### 3.11.2 METHODS

In 2025, fall avian migration stand watch surveys were completed during fall migration near proposed wind turbine locations in the Doris and Madrid regions. Additionally, two autonomous recording units (ARUs) were deployed to gather data on timing of migration and peak migration windows at the site during the fall (Table 3.11-1).

**TABLE 3.11-1 FALL AVIAN MIGRATION STAND WATCH SURVEY SITES AND AUTONOMOUS RECORDING UNIT LOCATIONS**

Site Name	Location		Date Completed
	Northing	Easting	
Stand Watch Site 01	433574	7547045	8 September 2025
Stand Watch Site 02	433068	7549822	9 September 2025
Stand Watch Site 03	433135	7555944	9 September 2025
Stand Watch Site 04	433050	7557916	6 September 2025
ARU 01 (Doris Lake)	433140	7555684	9 September 2025
ARU 02 (Madrid)	433013	7548360	8 September 2025

Notes:

ARU = autonomous recording unit; UTM = Universal Transverse Mercator

<sup>a</sup> UTM Zone 13W.

In early September 2025, stand watch surveys were completed by a qualified wildlife biologist and a member of the Agnico Eagle Hope Bay Mine Environment Team. The surveys were completed according to guidance from *Inventory Methods for Raptors* (Resources Inventory Committee 2001), *Standard Data Collection Protocol for Raptor Migration Monitoring* (Hawk Migration Association of North America 2006), and *Recommended Protocols for Monitoring Impacts of Wind Turbines on Birds* (Environment Canada 2007).

Survey timing aimed to correspond with peak migration, as identified through discussions with local Inuit in Cambridge Bay, a review of the timing of peak fall migration during baseline studies for the Madrid-Boston Project, and a review of data collected from 2020 to 2024 for other wind turbine projects in the area.

Four survey locations were selected for stand watch surveys, based on proposed wind turbine locations in Doris and Madrid, road access, and elevation (i.e., vantage point), to allow for unobstructed visual observation of migrating birds moving through the area. Survey locations were accessed via truck and hiking where feasible. For safety and efficiency, helicopter access was required for Stand Watch Site 01 and to deploy ARU 02 (Madrid).

At each survey location, observers scanned the skies for migrants without optic aids and with Vortex Viper (10 x 42) binoculars. When birds were detected but unable to be identified through binoculars, spotting scopes on tripods were used to assist with bird identification.

Birds observed, including species, numbers, environmental conditions, distance, flight height, and direction of movement, were documented at each survey location for between 4 and 6 hours. Survey duration was shortened due to weather constraints when warranted per Environment Canada 2007. Photographs were taken in each cardinal direction at each survey site. Each survey location was surveyed once in 2025.

Two ARUs were deployed in September 2025: one in the Doris area and one in the Madrid area. To reduce wind interference on data recordings, microphones were placed facing southeast, opposite to the predominant wind direction in the area (i.e., northwest). Data were collected for approximately 4 weeks.

### 3.11.3 RESULTS AND DISCUSSION

Avian migration stand watch surveys were completed at four survey locations, and ARUs were deployed at two locations between 6 and 9 September 2025 (Table 3.11-1). Results will be fully analyzed after completing additional stand watch surveys in 2026.

A preliminary review of 2025 data indicates that waterbirds, primarily snow goose and cackling goose were the most frequently observed migrants. In total, 20 raptors, 8 upland birds, and 594 waterbirds were observed migrating through the area (Table 3.11-2). Although stand watch surveys were timed for peak migration, observed numbers were lower than anticipated, suggesting peak fall migration may have occurred earlier in 2025.

TABLE 3.11-2 SUMMARY OF THE FALL AVIAN MIGRATION STAND WATCH SURVEYS,  
SEPTEMBER 2025

Common Name	Scientific Name	Total Number of Observations
<b>Raptors</b>		
Common Raven	<i>Corvus corax</i>	2
Golden Eagle	<i>Aquila chrysaetos</i>	1
Gyr Falcon	<i>Falco rusticolus</i>	1
Peregrine Falcon	<i>Falco peregrinus</i>	1
Rough-Legged Hawk	<i>Buteo lagopus</i>	13
Unidentified Raptor spp.	-	2
<b>Upland Birds</b>		
American Pipit	<i>Anthus rubescens</i>	8
<b>Waterbirds</b>		
Cackling Goose	<i>Branta hutchinsii</i>	116
Canada Goose	<i>Branta canadensis</i>	60
Greater White-Fronted Goose	<i>Anser albifrons</i>	30
Long-Tailed Duck	<i>Clangula hyemalis</i>	10
Parasitic Jaeger	<i>Stercorarius parasiticus</i>	1
Snow Goose	<i>Anser caerulescens</i>	210
Sandhill Crane	<i>Antigone canadensis</i>	3
Tundra Swan	<i>Cygnus columbianus</i>	1
Yellow-Billed Loon	<i>Gavia adamsii</i>	2
Unidentified Goose spp.	NA	161
<b>Total</b>		<b>622</b>

Note:

NA = not applicable

Analysis and presentation of stand watch and ARU data will follow completion of spring migration surveys.

### 3.12 MARINE MAMMALS

Mitigation measures for marine mammals related to shipping activity are required to meet Conditions 30, 31, and 32 of Project Certificate No. 009 (NIRB 2018). Mitigation measures described in the Shipping Management Plan (Agnico Eagle 2025) include required measures for shipping vessels and reporting of incidental sightings and incidents on shipping routes.

The Shipping Management Plan (Agnico Eagle 2023) was updated in early 2023 to include monitoring for marine wildlife in Roberts Bay during the shipping season to assess disturbance to marine wildlife resulting from Mine-related underwater noise. This update was made to satisfy Condition 33 of Project Certificate No. 009 (NIRB 2018). Appropriate indicators and thresholds to determine if negative impacts on marine wildlife are occurring will be established after at least 2 years of data collection. Adaptive management measures to mitigate adverse impacts of Mine-related noise will be developed, if required. Monitoring for this program was completed for the third time in 2025.

### 3.12.1 FINAL ENVIRONMENTAL IMPACT STATEMENT PREDICTIONS

The FEIS anticipated no residual effects on ringed seals (*Pusa hispida*), which were used as an indicator for the larger marine mammal community (TMAC Resources 2017). However, marine mammal monitoring is completed for the Mine due to Project Certificate No. 009 requirements (NIRB 2018).

### 3.12.2 METHODS

Marine mammals are monitored via observation surveys at Roberts Bay during shipping activity, vessel observations, and through the Wildlife Sightings/Reporting program (Section 3.2.3).

#### 3.12.2.1 MARINE MAMMAL MONITORING

The marine wildlife monitoring program is used to assess the disturbance of marine wildlife during shipping season due to vessel noise. In 2025, the surveys were completed as follows in Roberts Bay:

- Once per day for 3 days before the ships arrived in the bay;
- For 37 days while ships were anchored in the bay; and
- For 5 days after the ships had departed.

Surveys followed the Hope Bay Marine Mammal Monitoring SOP (ERM 2023b), which details data collection protocols and provides resources for common species identification. Surveys were completed from the shore, at locations with the best view of Roberts Bay (the jetty, 730 building, or near Roberts Bay single tank farm). Surveys lasted 30 minutes and observers scanned for the presence and behaviour of any marine mammals in Roberts Bay. Implemented mitigation measures, if required, were recorded.

#### 3.12.2.2 SHIPPING MITIGATIONS AND WILDLIFE SIGHTING LOGS

Wildlife sightings and incidents along shipping routes were reported by shipping vessel operators. Vessel operators were provided with project-specific training, including a review of marine wildlife setbacks and appropriate mitigation measures. In addition, operators were trained on reporting requirements prior to the shipping season, as described in the Shipping Management Plan (Agnico Eagle 2025). Operators were also provided with identification guides for seabirds, whales, and pinnipeds. Additionally, vessel tracks were assessed via data from the Wood Mackenzie vessel tracking database to confirm that setbacks and avoidance areas (e.g., avoidance of key habitat sites for migratory birds; ECCC 2016) were followed.

### 3.12.3 RESULTS AND DISCUSSION

#### 3.12.3.1 MARINE MAMMAL MONITORING

In 2025, 52 marine mammal surveys were completed in Roberts Bay. Surveys occurred once per day from 9 August to 1 October 2025 (Appendix T; Table 3.12-1). Five vessels arrived in Roberts Bay during the shipping season: the Qamutik, the Dolfijngracht, the Sivumut, the Ukpik, and the Qikiqtaaluk W (Figure 3.12-1). Three separate sightings of harbour seals (*Phoca vitulina*; one individual each) were recorded when there were no ships anchored or moving through Roberts Bay (i.e., one observation before the shipping period and two observations after the shipping period). One ringed seal was recorded during a survey when the Ukpik was anchored in Roberts Bay (Table 3.12-1; Appendix T). The ringed seal was observed swimming in the water, and no behavioural changes in response to the shipping activity were observed.

TABLE 3.12-1 MARINE MAMMAL MONITORING AT ROBERTS BAY, 2025

Monitoring Period	Monitoring Dates	Total Marine Mammals	Notes
Before Shipping	9 to 11 August 2025	1	One harbour seal, resting on rock
During Shipping	12 August to 27 September 2025	1	One ringed seal, swimming
After Shipping	28 September to 1 October 2025	2	Two harbour seals, swimming and resting

#### 3.12.3.2 SHIPPING MITIGATION AND WILDLIFE SIGHTING LOGS

In 2025, marine wildlife sightings were recorded by observers on two vessels, the Ukpik and the Qikiqtaaluk W, during the shipping season (Appendix U). No marine wildlife incidents were reported in 2025. Between the two vessels, 12 harp seals (*Pagophilus groenlandicus*) and 3 ringed seals were recorded by observers. All observed seals were at least 500 m away from the vessel, and no mitigation action was required (Appendix U). In addition to marine mammal sightings, incidental sightings of seabirds (i.e., waterbirds) were documented (Section 3.10.3.6).

The vessel tracks for the five vessels were reviewed to confirm that mitigations for setbacks and designated routes were followed (Figure 3.12-1). The tracks do not reflect precise vessel locations due to gaps in GPS signals (e.g., where tracks appear to cross land). The only deviations from the designated routes in 2025 occurred where the Qamutik and Qikiqtaaluk W vessels completed shipments at the communities Kugaaruk and Qausuittuq, respectively. All other vessels did not deviate from the nominal shipping routes.

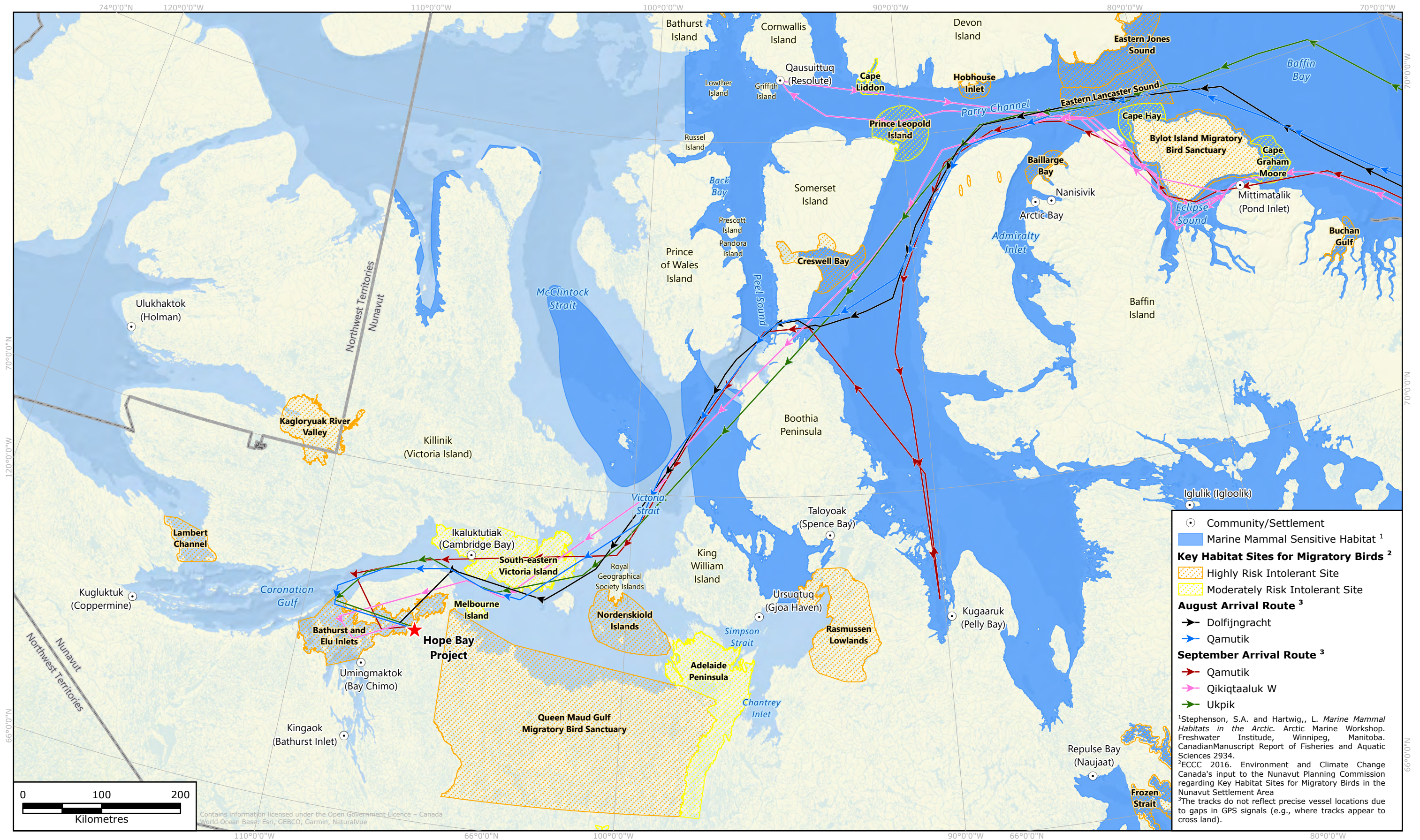
#### 3.12.3.3 INTERACTIONS, INCIDENTS, AND MORTALITIES

No marine mammal interactions, incidents, or mortalities were recorded in 2025 (Appendix G).

#### 3.12.3.4 WILDLIFE SIGHTINGS LOG AND INCIDENTAL OBSERVATIONS

In 2025, 19 marine mammals were recorded in the wildlife sightings log (Appendix H). Sightings included 1 bearded seal (*Erignathus barbatus*) and 4 sightings of 18 unidentified seals, all within Roberts Bay (Appendix T). No marine mammals were observed incidentally by biologists in 2025 (Appendix I).

FIGURE 3.12-1 VESSEL TRACKS DURING SHIPPING SEASON, 2025



### 3.13 PLANTS

Ongoing monitoring for invasive plants is required by Condition 17 and Commitment GN-04 in Project Certificate No. 009 (NIRB 2018). The WMMP includes invasive plant monitoring along Project infrastructure at 5-year intervals (Agnico Eagle 2025). Monitoring for invasive plants was completed during the baseline for the Madrid-Boston FEIS, and again in 2023. Surveys will be completed again in 2029.

A sedge sampling program for tissue metal concentrations was initiated in 2018. Additional data collection will be discussed when operation of the Madrid and/or Boston areas is underway.

## 4. CONCLUSION

Overall, the results of the 2025 Wildlife Mitigation and Monitoring Program indicate that Mine activities conducted during Care and Maintenance, with advanced exploration activities, remain consistent with wildlife protection commitments in the WMMP, the Project Certificate, and the Framework Agreement. Across program components, wildlife observations, interactions, and mortalities were within the range of effects predicted in the Madrid-Boston FEIS.

Habitat loss in 2025 was minor relative to the approved PDA and to the suitable habitat available within the FEIS study areas; therefore, previously established effects conclusions remain unchanged. Traffic levels and aircraft activity results generally aligned with FEIS predictions, with any exceedances attributable to Care and Maintenance or exploration activities not assessed in the FEIS. Quarry blast noise monitoring was found to be influenced by meteorology and local ambient sources, which provide inconsistent results. It is recommended to discontinue noise monitoring going forward. Wildlife interactions—including caribou and grizzly bear occurrences—were managed effectively using established mitigation measures, and no wildlife incidents occurred. Mortalities observed in 2025 were low in number and consistent with negligible effects predicted for VECs. One caribou mortality occurred in 2025 as a result of blasting activities; however, this is likely to have a negligible herd-level effect. The Mine was in compliance with their program when the mortality occurred and has taken corrective action to prevent similar incidents from occurring.

Camera monitoring results for caribou, muskox, grizzly bear, and wolverine remain consistent with prior years and continue to support the conclusion that wildlife are not exhibiting broad-scale avoidance or attraction to the Mine. A more robust camera monitoring program has been implemented since November 2025; the updates from this program will be provided in next year's annual compliance report. Marine mammal monitoring confirmed adherence to shipping mitigation measures, and no adverse interactions were recorded. Required surveys for birds and other taxa were completed according to the established monitoring schedule. Avian migratory stand watch surveys were completed in fall 2025. Additional surveys are planned for 2026, and the full analysis of stand watch data will be provided in next year's annual compliance report.

In summary, monitoring conducted in 2025 demonstrates that the Mine's wildlife mitigation measures and adaptive management approach remain effective, and the predictions of the Madrid-Boston FEIS continue to be valid under current Care and Maintenance conditions. Continued implementation of the WMMP and refinement of monitoring approaches will support ongoing understanding and management of potential effects on wildlife.

## 5. REFERENCES

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## APPENDIX A HELICOPTER TRIP LOG, 2025



## APPENDIX A: HELICOPTER TRIP LOG, 2025

Date	Time (Hours)	Aircraft	Location	Purpose
15-May-25	0	GUTI	N/A	Weather no good to fly
15-May-25	0	FYZF	N/A	Weather no good to fly
16-May-25	1.4	GUTI	Doris	LDG to Goose
16-May-25	1.6	FYZF	Doris	Goose lake to Doris
16-May-25	1.6	GUTI	Doris	Goose to Doris
16-May-25	2	GUTI	Doris	Flight from YK to LDG
16-May-25	2.7	FYZF	Doris	Yellow knife to Goose.
17-May-25	0.3	FYZF	Doris	Back to camp from set up
17-May-25	0.9	FYZF	Doris	Crew to set up base station
17-May-25	1.1	GUTI	Doris	Drill 4 floor set up
18-May-25	0.4	GUTI	Doris	Crew change D4
18-May-25	1.4	FYZF	Doris	Test for first set of lines
18-May-25	6.3	GUTI	Doris	Drill move D4
19-May-25	0.3	GUTI	Doris	Crew change Drill 4
19-May-25	0.3	FYZF	Doris	Back from Base station
19-May-25	0.3	FYZF	Doris	Pick up base station
19-May-25	0.3	FYZF	Doris	Set up base station
19-May-25	0.4	GUTI	Doris	Crew change D4
19-May-25	0.7	GUTI	Doris	Drill Support D4
19-May-25	0.9	GUTI	Doris	Drill Move
19-May-25	3.4	FYZF	Doris	Survey for Geo study
19-May-25	4.5	GUTI	Doris	Drill move D4

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
20-May-25	0.4	GUTI	Doris	Crew change D4
20-May-25	0.5	FYZF	Doris	Tried to fly to base station
20-May-25	1.4	GUTI	Doris	Drill Support D4
21-May-25	0.3	GUTI	Doris	Crew change D4
21-May-25	0.4	GUTI	Doris	Crew change 12 and 4
21-May-25	0.5	GUTI	Doris	Drill Support D4
21-May-25	0.6	FYZF	Doris	Crew back from Base station
21-May-25	0.6	FYZF	Doris	Crew to base station
21-May-25	6.1	GUTI	Doris	Drill Move 12
21-May-25	7.5	FYZF	Doris	Survey
22-May-25	0.3	GUTI	Doris	Drill 12 and 4
22-May-25	0.3	FYZF	Doris	Flight to base station
22-May-25	0.4	GUTI	Doris	Crew change 4 and 12
22-May-25	0.4	FYZF	Doris	Fly out to the base station
22-May-25	0.6	GUTI	Doris	Drill Support 4
22-May-25	0.6	FYZF	Doris	Flight back from base station
22-May-25	4	GUTI	Doris	Drill Move 12
22-May-25	8.3	FYZF	Doris	Survey
23-May-25	0.3	FYZF	Doris	Crew back from Base station
23-May-25	0.3	FYZF	Doris	Crew out to the base station
23-May-25	0.3	FYZF	Doris	Crew to base station
23-May-25	0.3	FYZF	Doris	Return from base station
23-May-25	0.4	GUTI	Doris	Crew change 4 and 12

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
23-May-25	0.4	GUTI	Doris	Crew back to Doris
23-May-25	0.4	GUTI	Doris	Return for fuel sling
23-May-25	0.5	GUTI	Doris	Crew change 4 and 12
23-May-25	0.5	GUTI	Doris to Boston	Crew to Boston
23-May-25	0.6	GUTI	Doris	Drill support
23-May-25	0.8	GUTI	Doris to Boston	Sling fuel out to Boston for MT
23-May-25	1.1	GUTI	Doris	Drill Support 4 and 12
23-May-25	4.3	FYZF	Doris	Survey
24-May-25	0	FYZF	N/A	Weather is no.
24-May-25	0.8	GUTI	Doris	Crew change 4 and 12
24-May-25	1.4	GUTI	Doris	Floor move Drill 4
24-May-25	1.8	GUTI	Doris	Drill Support 4 and 12
25-May-25	0	FYZF	N/A	Weather no good can't fly
25-May-25	0.8	GUTI	Doris	Crew change 4 and 12
25-May-25	2.9	GUTI	Doris	Drill Support 4 and 12
26-May-25	0	FYZF	N/A	Weather not good enough to fly
26-May-25	0.3	GUTI	Doris	Floor drill 12
26-May-25	0.8	GUTI	Doris	Floor for drill 12
26-May-25	0.9	GUTI	Doris	Crew change 4 and 12
26-May-25	2.2	GUTI	Doris	Drill Support 4 and 12
27-May-25	0.3	FYZF	Doris	Crew back from Base station
27-May-25	0.4	FYZF	Doris	Crew out to base station
27-May-25	0.9	GUTI	Doris	Crew change 4 and 12
27-May-25	1.5	GUTI	Doris	Drill support

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
28-May-25	0.3	FYZF	Doris	Crew out to base station
28-May-25	0.3	FYZF	Doris	Crew to base station
28-May-25	0.4	GUTI	Doris	Crew Change for DR 4 and DR 12
28-May-25	0.4	GUTI	Doris	Crew Change for DR4 and DR122
28-May-25	0.4	GUTI	Doris to Boston	Return flight from Boston
28-May-25	0.6	GUTI	Doris	Drill support for DR 4 and DR 12
28-May-25	0.6	FYZF	Doris	Crew back from Base station
28-May-25	0.6	GUTI	Doris to Boston	Sling Fuel to Boston for MT Survey
28-May-25	1.7	GUTI	Doris	NULL
28-May-25	4.1	FYZF	Doris	Survey
29-May-25	0.4	GUTI	Doris to Boston	Return from Boston Fuel Cache
29-May-25	0.7	GUTI	Doris to Boston	Sling 5 Drums of Jet A to Boston for MT
29-May-25	0.8	GUTI	Doris	Crew Change DR 4 and 12
29-May-25	0.9	GUTI	Doris	Drill Fuel Rig 12
29-May-25	2.2	GUTI	Doris	Drill service DR 4 and 12
29-May-25	3.3	FYZF	Doris	NULL
30-May-25	0	FYZF	N/A	No Flight due to wind conditions
30-May-25	0.1	GUTI	Doris	THA for Drill Move DR 4
30-May-25	0.3	GUTI	Doris	Drill Service for DR 12
30-May-25	0.4	GUTI	Doris	Crew Change DR 4 and 12
30-May-25	0.4	GUTI	Doris	Crew Change Drill Rigs 4 and 12
30-May-25	0.7	GUTI	Doris	Move DR 4
30-May-25	1	GUTI	Doris	Drill service DR 4 and 12
30-May-25	1.3	GUTI	Doris	Move for DR 4

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
31-May-25	0.3	FYZF	Doris	Expert Geophysics Crew
31-May-25	0.3	FYZF	Doris	Expert Geophysics crew back to camp
31-May-25	0.6	FYZF	Doris	Expert Geophysics crew
31-May-25	0.8	GUTI	Doris	Crew Change DR 4 and 12
31-May-25	1	FYZF	Doris	Sling bird back to Doris
31-May-25	1.6	GUTI	Doris	Drill service DR 4 and 12
31-May-25	7.1	FYZF	Doris	Surveying
1-Jun-25	0.2	GUTI	Doris	Fly out to DR12 for Move THA
1-Jun-25	0.3	FYZF	Doris	Expert Geophysics crew back to camp
1-Jun-25	0.4	GUTI	Doris	Crew change DR 4 and 12 6 PAX
1-Jun-25	0.4	FYZF	Doris	Expert Geophysics crew to Base station
1-Jun-25	0.6	GUTI	Doris	Crew Change 9 PAX
1-Jun-25	0.6	GUTI	Doris	Drill Service and Bins
1-Jun-25	0.6	GUTI	Doris	DS12 (0.4) DS4 (0.2)
1-Jun-25	1.5	GUTI	Doris	Drill Move and flight back to Doris
1-Jun-25	6.8	FYZF	Doris	MT Survey
2-Jun-25	0	FYZF	N/A	Bad Weather unable to survey
2-Jun-25	0.4	GUTI	Doris	Crew Change DR 4 and 12
2-Jun-25	0.5	GUTI	Doris	Crew Change Rig 4 and 12
2-Jun-25	0.5	GUTI	Doris	Drill Service DR 4
2-Jun-25	1	GUTI	Doris	Drill service DR 4 and 12
2-Jun-25	1.1	GUTI	Doris	Drill Service/Bins DR 4+12+10
2-Jun-25	1.3	GUTI	Doris	Drill Service/Bins DR 4+5+9+14

Date	Time (Hours)	Aircraft	Location	Purpose
3-Jun-25	0.3	FYZF	Doris	Doris - Base Station
3-Jun-25	0.4	GUTI	Doris	Crew Change DR 4 + 12
3-Jun-25	0.4	FYZF	Doris	Base station to Doris
3-Jun-25	0.5	GUTI	Doris	Crew Change DR 4 and 12
3-Jun-25	0.6	GUTI	Doris	Drill Service/Bins Rig 4 + 10
3-Jun-25	1.4	GUTI	Doris	Drill Service/Bins DR 4+12+5+9
3-Jun-25	1.5	GUTI	Doris	Drill Service/Bins DR 5+10+4+12
3-Jun-25	1.7	GUTI	Doris	Drill Service/Bins DR 4+12+11+9+10
4-Jun-25	0.3	GUTI	Doris	Drill Floor Rig 4 next hole
4-Jun-25	0.3	FYZF	Doris	Camp to Base station
4-Jun-25	0.4	GUTI	Doris	Crew Change 4+12
4-Jun-25	0.4	GUTI	Doris	Crew Change DR 4 + 12
4-Jun-25	0.4	FYZF	Doris	Base station to camp
4-Jun-25	0.8	GUTI	Doris	Drill Service 9+10+12
4-Jun-25	1.2	GUTI	Doris	Drill Service 12+4
4-Jun-25	1.3	GUTI	Doris	Drill Service 12+14+10+5
4-Jun-25	1.3	GUTI	Doris	Drill Service 12+4+10+11
4-Jun-25	6.1	FYZF	Doris	Survey
5-Jun-25	0	FYZF	N/A	Rob O'Halloran finishing day
5-Jun-25	0.2	GUTI	Doris	Late Crew Change
5-Jun-25	0.3	GUTI	Doris	Crew change Drill 4 and 12
5-Jun-25	0.3	FYZF	Doris	Fly Crew back to camp
5-Jun-25	0.3	FYZF	Doris	Fly crew to base station

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
5-Jun-25	0.3	FYZF	Doris	NULL
5-Jun-25	0.4	FYZF	Doris	Doris to Base station
5-Jun-25	0.5	FYZF	Doris	Pick up bird from Doris
5-Jun-25	0.8	FYZF	Doris to Boston	Sling Bird to Boston area
5-Jun-25	3.5	GUTI	Doris	Drill Service / Bins
5-Jun-25	7.3	FYZF	Doris	Survey
6-Jun-25	0	FYZF	N/A	Rob out of camp today
6-Jun-25	0.2	FYZF	Doris	Matt and Dave back to Doris with base station
6-Jun-25	0.2	FYZF	Doris	Matt and Dave to Repeater
6-Jun-25	0.4	GUTI	Doris	Crew Change DR 4 and 12
6-Jun-25	0.4	GUTI	Doris	Crew Change Rig 4 and 12
6-Jun-25	0.4	FYZF	Doris to Boston	Fly to Boston to get Bird
6-Jun-25	0.7	FYZF	Doris	Sling bird back to Doris
6-Jun-25	8.7	GUTI	Doris	Drill Service and Bins
7-Jun-25	0.4	GUTI	Doris	Crew Change DR 4 + 12
7-Jun-25	0.4	GUTI	Doris	Crew Change DR 4 +12
7-Jun-25	0.4	GUTI	Doris	Crew to service drill
7-Jun-25	0.7	FYZF	Boston	Mike and Ryan
7-Jun-25	8	GUTI	Doris	NULL
8-Jun-25	0.8	GUTI	Doris	Crew Change DR 4+12
8-Jun-25	4.1	FYZF	Doris	Demob to Yellowknife
8-Jun-25	6.1	GUTI	Doris	Drill Service and Bins

Date	Time (Hours)	Aircraft	Location	Purpose
9-Jun-25	0.3	GUTI	Doris	Crew Change DR 4 +12
9-Jun-25	0.4	GUTI	Doris	Crew Change DR 4+12
9-Jun-25	1.5	FVAV	Doris	Ferry to Hope Bay
9-Jun-25	2.9	FVAV	Doris	Ferry flight to Hope Bay
9-Jun-25	3.6	GUTI	Doris	NULL
9-Jun-25	4.6	GUTI	Doris	Drill Service / Bins
10-Jun-25	0.2	FVAV	Doris	Windy Lake pumphouse study
10-Jun-25	0.4	FVAV	Doris	Minnow Crew for Windy Pump House study
10-Jun-25	0.6	FVAV	Doris	Minnow Support for Windy Lake study
10-Jun-25	0.7	GUTI	Doris	Crew Change DR 4+12
10-Jun-25	1.1	FVAV	Doris	Drill Support Rigs 4+12
10-Jun-25	7.2	GUTI	Doris	Drill Service and Bins
11-Jun-25	0.1	FVAV	Doris	Bump Minnow Crew
11-Jun-25	0.2	FVAV	Doris	Equipment drop-off to Minnow crew
11-Jun-25	0.3	FVAV	Doris	pick up Nick and Richard
11-Jun-25	0.4	FVAV	Doris	Richard M. Nick W. to Peanut
11-Jun-25	0.5	FVAV	Doris	Windy lake pump house study
11-Jun-25	0.8	GUTI	Doris	Crew change 4, 12
11-Jun-25	5.3	GUTI	Doris	Drill service
12-Jun-25	0.4	GUTI	Doris	Crew change
12-Jun-25	0.4	FVAV	Doris	Drop off Minnow crew
12-Jun-25	0.9	FVAV	Doris	Bump Minnow Crew
12-Jun-25	1.6	GUTI	Doris	Crew change 4, 12

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
12-Jun-25	2.7	FVAV	Doris	Jonny and Dustin, review of historical holes
12-Jun-25	3.1	GUTI	Doris	Drill service
13-Jun-25	0	FVAV	N/A	No flights
13-Jun-25	0.8	GUTI	Doris	Crew change
13-Jun-25	5.8	GUTI	Doris	Drill service
14-Jun-25	0.1	FVAV	Doris	Crew pickup Patch Lake Island
14-Jun-25	0.6	FVAV	Doris	Gear and crew to island Doris Lake
14-Jun-25	0.8	GUTI	Doris	Crew change
14-Jun-25	0.8	FVAV	Doris to Boston	Crew pick up near Boston
14-Jun-25	0.9	FVAV	Boston	Crew drop East of Boston - Keith
14-Jun-25	6.3	GUTI	Doris	Drill service
15-Jun-25	0.1	FVAV	Doris	Crew from Island
15-Jun-25	0.1	FVAV	Doris	Crew to island
15-Jun-25	0.4	GUTI	Doris	Drill floor
15-Jun-25	0.7	FVAV	Doris	Crew to Madrid
15-Jun-25	0.7	GUTI	Doris	Crew change
15-Jun-25	0.8	FVAV	Doris	Terrascope crew
15-Jun-25	0.9	FVAV	Doris	Crew from ELU
15-Jun-25	0.9	FVAV	Doris	Crew to ELU
15-Jun-25	1.4	GUTI	Doris	Drill support
15-Jun-25	2.2	GUTI	Doris	Drill Move
15-Jun-25	5.4	GUTI	Doris	Drill service

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
16-Jun-25	0.2	FVAV	Doris	Crew back from Island
16-Jun-25	0.2	FVAV	Doris	Crew to island
16-Jun-25	0.3	FVAV	Doris	Guy and Robyn bear scan
16-Jun-25	0.8	GUTI	Doris	Crew change
16-Jun-25	0.8	FVAV	Doris	Crew back from Elu
16-Jun-25	0.8	FVAV	Doris	Crew to ELU
16-Jun-25	7.4	GUTI	Doris	Drill service
17-Jun-25	0.2	FVAV	Doris	Crew to island
17-Jun-25	0.2	GUTI	Doris	Crew back from Island
17-Jun-25	0.4	GUTI	Doris	Crone crew back to camp (Bears)
17-Jun-25	0.7	GUTI	Doris	Drone crew equipment (net and basket)
17-Jun-25	0.8	GUTI	Doris	Crew change
17-Jun-25	1	FVAV	Doris	Crew to Ulu
17-Jun-25	1.2	GUTI	Doris	Drill support
17-Jun-25	1.3	GUTI	Doris	Crews back from ELU
17-Jun-25	5.2	GUTI	Doris	Drill service
18-Jun-25	0.1	GUTI	Doris	Crew from Island
18-Jun-25	0.2	GUTI	Doris	Crew to island
18-Jun-25	0.2	GUTI	Doris	Crew from Patch
18-Jun-25	0.2	GUTI	Doris	Crew to Patch Lake Island
18-Jun-25	0.4	GUTI	Doris	Crew Change 4 + 12
18-Jun-25	1.8	GUTI	Doris	Drill service
18-Jun-25	2.3	GUTI	Doris	Drill support

Date	Time (Hours)	Aircraft	Location	Purpose
19-Jun-25	0	FVAV	N/A	Waiting for Part to repair Helicopter
19-Jun-25	0.2	GUTI	Doris	Crew Change DR 12
19-Jun-25	0.2	GUTI	Doris	Drone Crew back to camp
19-Jun-25	0.2	GUTI	Doris	Drone Mag Crew to gear in field
19-Jun-25	0.6	GUTI	Doris	Crew Change 4 + 12
19-Jun-25	1.1	GUTI	Doris	Drill Service DR 4+12
19-Jun-25	1.2	GUTI	Doris	Drill Service and Bins
19-Jun-25	1.3	GUTI	Doris	Drill Service 9 + 10 + 14
19-Jun-25	1.3	GUTI	Doris	Drill Service 9 + 10 + 14 + 4
19-Jun-25	1.5	GUTI	Doris	Drill Service 5 + 10 + 9
20-Jun-25	0.1	GUTI	Doris	reposition
20-Jun-25	0.3	GUTI	Doris	Fly Timber for fly drill floors
20-Jun-25	0.3	FVAV	Doris	2 Pax from LZ-14 to LZ-16
20-Jun-25	0.3	FVAV	Doris	2 sling loads from LZ-14 to LZ-16
20-Jun-25	0.3	FVAV	Doris	Terrascope back from LZ-16 to Camp
20-Jun-25	0.4	GUTI	Doris	Crew Change 4 + 12
20-Jun-25	0.4	GUTI	Doris	Crew Change DR 4 + 12
20-Jun-25	0.6	FVAV	Doris	Geos to Lake Sed Anomaly - Elu
20-Jun-25	0.6	FVAV	Doris	Prospecting crew back to Doris from Elu
20-Jun-25	0.6	FVAV	Doris	Drone Crew
20-Jun-25	1.1	GUTI	Doris	Drill Service 12 + 9 + 5
20-Jun-25	1.4	GUTI	Doris	Drill Service 12 + 14 + 9 + 5 + 10
20-Jun-25	1.4	GUTI	Doris	Drill Service 4 + 12

Date	Time (Hours)	Aircraft	Location	Purpose
20-Jun-25	1.6	GUTI	Doris	Drill Service 4 + 12 + 14 + 9
20-Jun-25	1.7	GUTI	Doris	Drill Service 4 + 12 + 9 + 5 + 10
21-Jun-25	0.2	FVAV	Doris	Enviro crew back to camp
21-Jun-25	0.3	FVAV	Doris	Bump Enviro to Imniagut Outflow
21-Jun-25	0.3	FVAV	Doris	Enviro to Patch Outflow
21-Jun-25	0.3	FVAV	Doris	Terrascope crew to LZ-16
21-Jun-25	0.3	GUTI	Doris	Drill service 9
21-Jun-25	0.3	FVAV	Doris	Terrascope crew back to camp
21-Jun-25	0.5	GUTI	Doris	drill support 4 + 9
21-Jun-25	0.5	FVAV	Doris	Prospection crew to Elu Central link 9
21-Jun-25	0.5	FVAV	Doris	Move Gear from LZ-16 to LZ-18
21-Jun-25	0.5	FVAV	Doris	Transport crews between LZ-16 and LZ-18
21-Jun-25	0.7	FVAV	Doris	Prospection crew back to camp
21-Jun-25	0.8	GUTI	Doris	Crew Change 4 + 12
21-Jun-25	1.5	GUTI	Doris	Drill Service 4 + 12 + 14 + 9
21-Jun-25	1.5	GUTI	Doris	Drill Service 9 + 5 + 12 + 4
21-Jun-25	1.7	GUTI	Doris	Drill Service 12 + 4 + 14 + 9 + 5
22-Jun-25	0.3	FVAV	Doris	Enviro crew to PO Lake
22-Jun-25	0.3	FVAV	Doris	Crew moves between LZ-18 and LZ-12
22-Jun-25	0.3	FVAV	Doris	Sling between LZ-12 and LZ-11
22-Jun-25	0.3	FVAV	Doris	Terrascope crew to LZ-18
22-Jun-25	0.4	FVAV	Doris	Crews to LZ-11 then camp
22-Jun-25	0.4	FVAV	Doris	Sling Gear from LZ-18 to LZ-12

Date	Time (Hours)	Aircraft	Location	Purpose
22-Jun-25	0.5	GUTI	Doris	Sling Timbers
22-Jun-25	0.5	FVAV	Doris	Prospection crew to Elu Central Link
22-Jun-25	0.6	FVAV	Doris	Enviro Crew to Glenn Lake and back to camp
22-Jun-25	0.6	FVAV	Doris	Prospecting crew back to camp
22-Jun-25	0.7	FVAV	Doris	Water Sampling in Sumps
22-Jun-25	0.8	GUTI	Doris	Crew Change 4 + 12
22-Jun-25	0.8	GUTI	Doris	Drill Service 9 + 14 + 5
22-Jun-25	1.5	GUTI	Doris	Drill Service 4 + 12
22-Jun-25	1.5	GUTI	Doris	Drill Service 9 + 10 + 14 + 12
22-Jun-25	1.5	GUTI	Doris	drill service 9 + 5 + 14 + 12
22-Jun-25	1.6	GUTI	Doris	Drill Service 9 + 10 + 12 + 4
23-Jun-25	0.2	FVAV	Doris	Enviro Crew to Ogama Outflow
23-Jun-25	0.3	FVAV	Doris	Enviro Crew to Windy Outflow
23-Jun-25	0.3	FVAV	Doris	Drone Crew to LZ-11
23-Jun-25	0.5	FVAV	Doris	Aerial Survey
23-Jun-25	0.7	FVAV	Doris	Prospecting Crew to Elu Central Link
23-Jun-25	0.8	GUTI	Doris	Crew Change 4 + 12
23-Jun-25	1.4	GUTI	Doris	Drill Service 12 + 4 + 10 + 5
23-Jun-25	1.4	GUTI	Doris	Drill Service 4 + 12 + 14
23-Jun-25	1.6	GUTI	Doris	Drill Service 4 + 12
23-Jun-25	1.7	GUTI	Doris	Drill Service 4 + 12 + 5 + 10 + 14
24-Jun-25	0.2	FVAV	Doris	enviro back to camp
24-Jun-25	0.2	FVAV	Doris	Enviro crew to Roberts Lake

Date	Time (Hours)	Aircraft	Location	Purpose
24-Jun-25	0.3	FVAV	Doris	Enviro Creek Bump across creek at lake
24-Jun-25	0.3	FVAV	Doris	Enviro to Little Roberts Lake
24-Jun-25	0.3	FVAV	Doris	Drone Crew back to camp
24-Jun-25	0.4	GUTI	Doris	Crew Change 4 + 12
24-Jun-25	0.4	FVAV	Doris	drone crew to LZ-09
24-Jun-25	0.9	GUTI	Doris	Drill Service 4 + 14 + 9
24-Jun-25	1	FVAV	Doris	Prospecting crew to Kent claims
24-Jun-25	1.1	FVAV	Doris	prospector crew back to camp
24-Jun-25	1.4	GUTI	Doris	Drill Service 4 + 5 + 10 + 9
24-Jun-25	1.6	GUTI	Doris	Drill Service 12 + 4 + 14 + 10
24-Jun-25	1.9	GUTI	Doris	Drill Service 4 + 12
25-Jun-25	0.1	FVAV	Doris	Crew to Camp
25-Jun-25	0.2	GUTI	Doris	Drill Service 5
25-Jun-25	0.2	GUTI	Doris	Drill Support 5
25-Jun-25	0.2	GUTI	Doris	THA for move at Rig 12
25-Jun-25	0.2	FVAV	Doris	Pax to LZ-4
25-Jun-25	0.3	FVAV	Doris	Enviro crew to Glenn Lake and back
25-Jun-25	0.3	FVAV	Doris	Drone Crew from LZ-10 to Camp
25-Jun-25	0.4	FVAV	Doris	Drone Crew from Doris to LZ-10
25-Jun-25	0.4	FVAV	Doris	Sling Gear from LZ-11 to LZ 10
25-Jun-25	0.4	FVAV	Doris	Sling gear to LZ-4
25-Jun-25	0.5	FVAV	Doris	Sling gear from LZ-10 to Camp
25-Jun-25	0.9	GUTI	Doris	Crew Change 4 + 12

Date	Time (Hours)	Aircraft	Location	Purpose
25-Jun-25	1	FVAV	Doris	Drill service
25-Jun-25	1.3	GUTI	Doris	Drill Service 9 + 14 + 10
25-Jun-25	1.5	GUTI	Doris	Drill Support 4 + 12 + 10 + 5
25-Jun-25	1.6	GUTI	Doris	Drill Service 5 + 9 + 14 + 10 + 4
25-Jun-25	2.6	GUTI	Doris	Drill Move 12
26-Jun-25	0.2	GUTI	Doris	Drill Service 10
26-Jun-25	0.2	GUTI	Doris	To 4 for Drill Move THA
26-Jun-25	0.2	FVAV	Doris	Drone crew back to Doris Camp
26-Jun-25	0.2	FVAV	Doris	Drone Crew to LZ-4
26-Jun-25	0.3	FVAV	Doris to Boston	Crew back from Boston
26-Jun-25	0.4	FVAV	Doris to Boston	Crew to Repair Dome, portal barricade and runway fuel berm
26-Jun-25	0.5	FVAV	Doris	Sling unused MT survey fuel back to Doris
26-Jun-25	0.6	FVAV	Doris	Prospecting Crew back to Doris Camp
26-Jun-25	0.6	FVAV	Doris	Prospecting Crew to Elu Central Link
26-Jun-25	1.5	GUTI	Doris	Drill Service 9 + 14
26-Jun-25	1.6	GUTI	Doris	Drill Service 14 + 4 + 12
26-Jun-25	2.2	GUTI	Doris	Drill Service 5 + 10 + 14 + 9
26-Jun-25	3	GUTI	Doris	Drill Move 4
26-Jun-25	9.9	GUTI	Doris	Crew Change 4 + 12
27-Jun-25	0.2	FVAV	Doris	Ruth back to Camp
27-Jun-25	0.2	FVAV	Doris	Crew back to Doris
27-Jun-25	0.3	FVAV	Doris	Drone Crew to LZ-5
27-Jun-25	0.4	FVAV	Doris	18km south of Camp

Date	Time (Hours)	Aircraft	Location	Purpose
27-Jun-25	0.4	FVAV	Doris	Ruth to Windy Lake
27-Jun-25	0.4	FVAV	Doris	Sling Gear back to Doris
27-Jun-25	0.4	FVAV	Doris	Sling Gear from LZ-4 to LZ-5
27-Jun-25	0.5	GUTI	Doris	Support Pad builders
27-Jun-25	0.5	FVAV	Doris	Regional Prosp. To Elu Central Link
27-Jun-25	0.6	FVAV	Doris	Regional Prosp. Back to camp
27-Jun-25	0.8	GUTI	Doris	Crew Change 4 + 12
27-Jun-25	1.2	GUTI	Doris	Drill Support 9 + 10 + 12 + 14
27-Jun-25	1.3	GUTI	Doris	Drill Support 9 + 14
27-Jun-25	1.3	GUTI	Doris	Drill Support 14 + 9 10 + 12
27-Jun-25	1.7	GUTI	Doris	Drill Support 14 + 9 + 5 + 10 + 12
27-Jun-25	1.8	GUTI	Doris	Drill Support 4 + 12 + 9 + 14
28-Jun-25	0.2	GUTI	Doris	Aborted for Fog
28-Jun-25	0.3	FVAV	Doris	Ruth and Mo back to Doris
28-Jun-25	0.3	FVAV	Doris	Ruth and Mo to location 17km S of camp
28-Jun-25	0.4	FVAV	Doris	Aurora crew back to Doris
28-Jun-25	0.4	FVAV	Doris	Sling Gear from Doris to Aurora Crew
28-Jun-25	0.5	FVAV	Doris	Aurora Crew to Northernmost Survey Grid
28-Jun-25	0.6	FVAV	Doris	Prosp. Back to Doris
28-Jun-25	0.6	FVAV	Doris	Prosp. Crew to Elu Central Link
28-Jun-25	0.8	GUTI	Doris	Crew Change 4 + 12
28-Jun-25	1.4	GUTI	Doris	Drill Service 4 + 12 + 10 + 9 + 5
28-Jun-25	1.5	GUTI	Doris	Drill Service 4 + 12 + 14

Date	Time (Hours)	Aircraft	Location	Purpose
28-Jun-25	1.6	GUTI	Doris	Drill Service 14 + 9 + 5 + 10 + 12
28-Jun-25	1.6	GUTI	Doris	Drill service 5 + 9 + 14 + 12 + 4
29-Jun-25	0.3	FVAV	Doris	Ruth and Mo back to camp
29-Jun-25	0.3	FVAV	Doris	Aurora Crew back to camp
29-Jun-25	0.4	FVAV	Doris	Aurora to South Patch Lake
29-Jun-25	0.5	GUTI	Doris	Drill pad Remediation
29-Jun-25	0.5	FVAV	Doris	Prosp. Crew back to camp
29-Jun-25	0.9	FVAV	Doris	Ruth to 10km W
29-Jun-25	0.9	GUTI	Doris	Crew Change 4 + 12
29-Jun-25	1.3	GUTI	Doris	Drill Service 4 + 12 + 9 + 10 + 14
29-Jun-25	1.4	GUTI	Doris	Drill service 14 + 9 + 5
29-Jun-25	1.4	GUTI	Doris	Drill Service 9 + 14 + 10 + 5 + 12 + 4
29-Jun-25	1.5	GUTI	Doris	Drill Service 4 + 12 + 10 + 9 + 14
29-Jun-25	1.6	GUTI	Doris	Drill Service 4 + 12 + 14
30-Jun-25	0.3	FVAV	Doris	Aurora Crew back to camp
30-Jun-25	0.3	FVAV	Doris	Aurora Crew to South Patch Lake
30-Jun-25	0.5	GUTI	Doris	-
30-Jun-25	0.5	GUTI	Doris	Drill Service 9 + 12
30-Jun-25	0.6	GUTI	Doris	Drill Service 14 + 10
30-Jun-25	0.6	FVAV	Doris	Matt/Muzo to Aurora Crew and back to Camp
30-Jun-25	0.7	FVAV	Boston	Ruth and Mo 65km South near Boston Camp
30-Jun-25	0.8	FVAV	Doris	Ruth and Mo back to camp
30-Jun-25	0.9	GUTI	Doris	Crew Change 4 + 12

Date	Time (Hours)	Aircraft	Location	Purpose
30-Jun-25	1.4	GUTI	Doris	Drill Service 12 + 1 47 + 9 + 4
30-Jun-25	1.6	FVAV	Doris to Boston	Sling Fuel back to Doris from Boston (MT Survey leftovers)
30-Jun-25	1.7	GUTI	Doris	Drill Service 14 + 10 + 12 + 4 + 9
30-Jun-25	1.8	GUTI	Doris	Drill Service 12 + 4
1-Jul-25	0.2	FVAV	Doris	Ruth and Mo back to camp
1-Jul-25	0.3	FVAV	Doris	Ruth and Mo 11 km SW of Doris
1-Jul-25	0.3	FVAV	Doris	Aurora Crew to south of patch lake
1-Jul-25	0.4	FVAV	Doris	Aurora Crew back to camp
1-Jul-25	0.6	FVAV	Doris	Prosp crew back to Doris
1-Jul-25	0.7	FVAV	Doris	Prosp. Elu 38km E of Doris
1-Jul-25	0.9	GUTI	Doris	Crew Change 4 + 12
1-Jul-25	1.4	GUTI	Doris	Drill Support 14 + 5 + 12 + 4
1-Jul-25	1.5	GUTI	Doris	Drill Support 9 + 10 + 5 + 14 + 4 + 12
1-Jul-25	1.7	GUTI	Doris	Drill Support 4 + 10 + 12 + 5
1-Jul-25	1.8	GUTI	Doris	Drill Support 14 + 4 + 12 + 9 + 5
2-Jul-25	0.2	GUTI	Doris	THA for DR 12
2-Jul-25	0.4	FVAV	Doris	Ruth, Maddie and Mo back to camp
2-Jul-25	0.4	FVAV	Doris	Aurora Crew back to camp
2-Jul-25	0.4	FVAV	Doris	Aurora Crew to south of patch lake
2-Jul-25	0.5	GUTI	Doris	Crew Change 4 + 12
2-Jul-25	0.5	GUTI	Doris	Drill Support 9 + 5
2-Jul-25	0.5	FVAV	Doris	Ruth, Maddie and Mo to 28 km S
2-Jul-25	1.5	GUTI	Doris	Drill Support 14 + 9 + 5 + 4 + 12

Date	Time (Hours)	Aircraft	Location	Purpose
2-Jul-25	1.6	GUTI	Doris	Drill Support 14 + 5 + 9 + 10 + 4
2-Jul-25	1.6	GUTI	Doris	Drill Support 4 + 12 + 14 + 9
2-Jul-25	3.3	GUTI	Doris	Move 12
3-Jul-25	0.4	FVAV	Doris	Crew pick up
3-Jul-25	0.5	FVAV	Doris	Crew pickup
3-Jul-25	0.5	FVAV	Doris	Crew drop off south Patch
3-Jul-25	0.8	GUTI	Doris	Crew change
3-Jul-25	0.8	FVAV	Doris	Crew drop off Ruth and Mo
3-Jul-25	1.4	FVAV	Doris	Drill support
3-Jul-25	5.2	GUTI	Doris	Drill service
4-Jul-25	0.2	FVAV	Doris	Crew pick up Ruth and Mo
4-Jul-25	0.3	FVAV	Doris	Ruth and Mo
4-Jul-25	0.4	FVAV	Doris	Crew pickup IP
4-Jul-25	0.4	FVAV	Doris	Drop off Aurora crew south Patch
4-Jul-25	0.5	FVAV	Doris	Crew pickup ODM
4-Jul-25	0.6	FVAV	Doris	2 ODM crew
4-Jul-25	0.9	FVAV	Doris	Drill support
4-Jul-25	0.9	GUTI	Doris	Crew change
4-Jul-25	6.2	GUTI	Doris	Drill service
5-Jul-25	0.2	GUTI	Doris	To drill 4 for THA
5-Jul-25	0.3	FVAV	Doris	Drill service
5-Jul-25	0.4	FVAV	Doris	Aurora crew drop off
5-Jul-25	0.4	FVAV	Doris	IP crew pick up

Date	Time (Hours)	Aircraft	Location	Purpose
5-Jul-25	0.5	FVAV	Doris	2 ODM crews drop off
5-Jul-25	0.5	FVAV	Doris	ODM crew pick up
5-Jul-25	0.6	FVAV	Doris	Pick up samples for ODM
5-Jul-25	0.8	FVAV	Doris	Ruth and Mo pick up
5-Jul-25	0.9	GUTI	Doris	Crew change
5-Jul-25	1	FVAV	Boston	Ruth/Mo south of Boston
5-Jul-25	3.4	GUTI	Doris	Drill 4 move
5-Jul-25	4.4	GUTI	Doris	Drill service
5-Jul-25	5.2	FVAV	Doris	Olivia and Kayla wildlife cameras
6-Jul-25	0.3	FVAV	Doris	Manon Emily Nick Richard
6-Jul-25	0.3	FVAV	Doris	Nick and Richard return
6-Jul-25	0.4	FVAV	Doris	Ruth and Mo
6-Jul-25	0.4	FVAV	Doris	Aurora crew south of Patch Lake
6-Jul-25	0.4	FVAV	Doris	Aurora IP crew back to camp
6-Jul-25	0.5	FVAV	Doris	ODM Crew back to camp
6-Jul-25	0.5	FVAV	Doris	Pick up Ruth, Mo, Emily and Manon
6-Jul-25	0.5	FVAV	Doris	Bump Aurora crew
6-Jul-25	0.8	GUTI	Doris	Crew change
6-Jul-25	0.8	FVAV	Doris	2 ODM crews out
6-Jul-25	1	FVAV	Doris	Pick up ODM samples
6-Jul-25	1.6	FVAV	Doris	Wildlife camera crew
6-Jul-25	2.9	FVAV	Doris	Drill support
6-Jul-25	5	GUTI	Doris	Drill service

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
7-Jul-25	0.2	FVAV	Doris	Pickup Manon and Emily
7-Jul-25	0.3	FVAV	Doris	Pick up Ruth and Mo
7-Jul-25	0.4	FVAV	Doris	Crew change
7-Jul-25	0.4	GUTI	Doris	Crew change
7-Jul-25	0.4	FVAV	Doris	Manon and Emily
7-Jul-25	0.4	FVAV	Doris	Ruth and Mo
7-Jul-25	0.5	FVAV	Doris	Drill support
7-Jul-25	0.5	FVAV	Doris	Reclamation
7-Jul-25	0.5	FVAV	Doris	Bump Ruth and Mo
7-Jul-25	0.5	FVAV	Doris	ODM crew pickup
7-Jul-25	0.5	FVAV	Doris	Aurora south of Patch
7-Jul-25	0.6	FVAV	Doris	Pick up ODM samples
7-Jul-25	0.6	FVAV	Doris	Aurora pick-up
7-Jul-25	0.7	FVAV	Doris	Cardon and Eric hole staking
7-Jul-25	0.8	FVAV	Doris	2 ODM crews
7-Jul-25	1	GUTI	Doris	Pad builders
7-Jul-25	6.6	GUTI	Doris	Drill service
8-Jul-25	0.3	GUTI	Doris	Pad builders
8-Jul-25	0.3	FVAV	Doris	Bump Aurora
8-Jul-25	0.3	FVAV	Doris	Pick up Ruth and Mo
8-Jul-25	0.4	FVAV	Doris	Crew change
8-Jul-25	0.4	FVAV	Doris	Aurora south of Patch
8-Jul-25	0.4	FVAV	Doris	Pick ODM crew

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
8-Jul-25	0.4	FVAV	Doris	Ruth and Mo out
8-Jul-25	0.4	FVAV	Doris	Pick up Aurora
8-Jul-25	0.5	GUTI	Doris	Crew change
8-Jul-25	0.5	FVAV	Doris	2 ODM crews out
8-Jul-25	0.8	FVAV	Doris	ODM samples
8-Jul-25	1.4	FVAV	Doris	Drill service
8-Jul-25	4.8	FVAV	Doris	Camera crew
8-Jul-25	6	GUTI	Doris	Drill service
9-Jul-25	0.3	FVAV	Doris	Pick up ODM samples
9-Jul-25	0.3	FVAV	Doris	Ruth and Mo back to camp
9-Jul-25	0.3	FVAV	Doris	IP crew pickup
9-Jul-25	0.4	FVAV	Doris	Crew change
9-Jul-25	0.4	GUTI	Doris	Crew change
9-Jul-25	0.4	FVAV	Doris	Ruth and Mo out
9-Jul-25	0.4	FVAV	Doris	Aurora to south of Patch
9-Jul-25	0.5	FVAV	Doris	Staking
9-Jul-25	0.5	FVAV	Doris	ODM crews out
9-Jul-25	0.5	FVAV	Doris	Wildlife check pick-up ODM crew
9-Jul-25	0.8	FVAV	Doris	Drill service
9-Jul-25	0.9	FVAV	Doris	ODM pick up samples
9-Jul-25	1.1	GUTI	Doris	Pad builders
9-Jul-25	5.9	GUTI	Doris	Drill service
10-Jul-25	0.4	GUTI	Doris	Crew change

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
10-Jul-25	0.4	FVAV	Doris	Pick up IP crew
10-Jul-25	0.5	FVAV	Doris	Aurora drop-off south of Patch
10-Jul-25	0.7	FVAV	Doris	Crew change
10-Jul-25	0.7	FVAV	Doris	2 ODM crews out
10-Jul-25	0.7	FVAV	Doris	Pick ODM crew
10-Jul-25	1	FVAV	Doris	Bump Aurora crew sling equipment
10-Jul-25	1.4	FVAV	Doris	Drill service
10-Jul-25	3.3	GUTI	Doris	Drill service
11-Jul-25	0.2	GZAV	Doris	Ruth and Mo drop off
11-Jul-25	0.3	GZAV	Doris	Pick up IP crew
11-Jul-25	0.4	GZAV	Doris	Pick up Ruth and Mo
11-Jul-25	0.4	GZAV	Doris	Drop of Aurora
11-Jul-25	0.5	GZAV	Doris	Ruth's crew bump to new location
11-Jul-25	0.6	GZAV	Doris	Pick up ODM crew
11-Jul-25	0.6	GZAV	Doris	Ruth pick-up and drop-off
11-Jul-25	0.8	GUTI	Doris	Crew change
11-Jul-25	0.8	GZAV	Doris	Drill support
11-Jul-25	1	GZAV	Doris	Pick up ODM samples
11-Jul-25	1.2	GZAV	Doris	Drop off ODM crew
11-Jul-25	6	GUTI	Doris	Drill service
12-Jul-25	0.3	GZAV	Doris	Ruth's crew pick up
12-Jul-25	0.4	GZAV	Doris	Pick up ODM
12-Jul-25	0.4	GZAV	Doris	Pick up Aurora

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
12-Jul-25	0.5	GZAV	Doris	Aurora Crew south of Patch
12-Jul-25	0.6	GZAV	Doris	Mo and Serena
12-Jul-25	0.6	GZAV	Doris	Pick up ODM samples
12-Jul-25	0.7	GZAV	Doris	Drill Move
12-Jul-25	0.8	GUTI	Doris	Crew change
12-Jul-25	0.8	GZAV	Doris	Pick up Ruths crew
12-Jul-25	1	GZAV	Doris	ODM crew out
12-Jul-25	1	GZAV	Doris	Ruth's crew out
12-Jul-25	1.1	GZAV	Doris	Bump Ruth's crew
12-Jul-25	1.4	GZAV	Doris	Drill support
12-Jul-25	2.9	GUTI	Doris	Drill Move Rig 12
12-Jul-25	3.1	GUTI	Doris	Drill service
13-Jul-25	0.4	FYZF	Doris	Crew change
13-Jul-25	0.4	GZAV	Doris	Ruth's crew drop off
13-Jul-25	0.4	GZAV	Doris	Pick up Aurora
13-Jul-25	0.5	GZAV	Doris	Pick up ODM
13-Jul-25	0.5	GZAV	Doris	Aurora drop-off
13-Jul-25	0.8	GZAV	Doris	Ruth's crew pick up
13-Jul-25	0.9	GZAV	Doris	Drill service
13-Jul-25	0.9	GZAV	Doris	ODM drop off
13-Jul-25	1.1	GZAV	Doris	Ruth's crew bump
13-Jul-25	1.4	GUTI	Doris	Crew change
13-Jul-25	2.5	GZAV	Doris	Enviro - dust falls, seeps, cameras

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
13-Jul-25	2.5	FYZF	Doris	Drill service
13-Jul-25	3	GUTI	Doris	Drill service
14-Jul-25	0.3	GZAV	Doris	Pick up Enviro crew
14-Jul-25	0.3	GZAV	Doris	Pad builders pick up
14-Jul-25	0.3	GZAV	Doris	Ruth's crew drop off
14-Jul-25	0.4	GZAV	Doris	Ruth's crew bump
14-Jul-25	0.5	GZAV	Doris	Aurora south of Patch
14-Jul-25	0.5	GZAV	Doris	Pick up Aurora crew
14-Jul-25	0.6	GZAV	Doris	Pick up ODM
14-Jul-25	0.7	FYZF	Doris	Crew change
14-Jul-25	0.8	GZAV	Doris	Drill service
14-Jul-25	1	GZAV	Doris	Ruth's crew pick up
14-Jul-25	1.1	GZAV	Doris	ODM crews drop off
14-Jul-25	1.1	GZAV	Doris	ODM sample pick up
14-Jul-25	1.5	FYZF	Doris	Pad Builders out
14-Jul-25	2.8	FYZF	Doris	Drill Move
14-Jul-25	3.8	FYZF	Doris	Drill service
15-Jul-25	0.3	GZAV	Doris	Drill support
15-Jul-25	0.4	FYZF	Doris	Crew change
15-Jul-25	0.4	GZAV	Doris	Crew change
15-Jul-25	0.6	GZAV	Doris	Aurora crew out
15-Jul-25	0.7	FYZF	Doris	Pad builders
15-Jul-25	0.7	FYZF	Doris	ODM crew in Bear

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
15-Jul-25	1.1	GZAV	Doris to Boston	Enviro to Boston
15-Jul-25	1.1	GZAV	Doris to Boston	Crew to Boston
15-Jul-25	1.3	GZAV	Boston	Crew
15-Jul-25	1.3	GZAV	Doris	Drill service
15-Jul-25	1.9	GZAV	Doris	ODM out collect samples
15-Jul-25	4.8	FYZF	Doris	Drill support
16-Jul-25	0.4	FYZF	Doris	Crew change
16-Jul-25	0.4	GZAV	Doris	IP and ODM crew
16-Jul-25	0.6	GZAV	Doris	Aurora Crew to Field
16-Jul-25	0.7	GZAV	Doris	IP crew
16-Jul-25	1	GZAV	Doris to Boston	KIA and Enviro to Boston
16-Jul-25	1.4	FYZF	Doris	Crew change GT
16-Jul-25	1.5	GZAV	Doris	Evening Drill support
16-Jul-25	1.5	GZAV	Doris	ODM crews out pick up samples
16-Jul-25	2.3	FYZF	Doris	Pad building
16-Jul-25	4.7	FYZF	Doris	Drill support
17-Jul-25	0.2	FYZF	Doris	Crew change charter day
17-Jul-25	0.2	FYZF	Doris	Pad rec
17-Jul-25	0.5	GZAV	Doris	ODM
17-Jul-25	0.5	GZAV	Doris	ODM back to site
17-Jul-25	0.5	GZAV	Doris	IP crew
17-Jul-25	0.7	GZAV	Doris	IP crew in
17-Jul-25	0.8	FYZF	Doris	Crew change

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
17-Jul-25	0.8	GZAV	Doris	IP crew bump
17-Jul-25	1.7	GZAV	Doris	ODM Crew and sample pick up
17-Jul-25	1.9	FYZF	Doris	Drill support Bin dump
17-Jul-25	5.5	FYZF	Doris	Drill support
18-Jul-25	0.1	FYZF	Doris	Pad building
18-Jul-25	0.1	GZAV	Doris	Parts to the drill
18-Jul-25	0.2	GZAV	Doris	GEO out to the field
18-Jul-25	0.3	FYZF	Doris	Building pads
18-Jul-25	0.3	GZAV	Doris	Jonny and Eric back from pad
18-Jul-25	0.3	GZAV	Doris	IP crew sling gear
18-Jul-25	0.4	GZAV	Doris	Minnow crew back to camp
18-Jul-25	0.4	GZAV	Doris	Minnow crew out to windy
18-Jul-25	0.4	GZAV	Doris	Geo crew back to camp
18-Jul-25	0.4	GZAV	Doris	ODM back to camp
18-Jul-25	0.4	GZAV	Doris	ODM back to hope bay
18-Jul-25	0.4	GZAV	Doris	IP crew back to camp
18-Jul-25	0.5	GZAV	Doris	IP crew
18-Jul-25	0.6	FYZF	Doris	Drill service
18-Jul-25	0.6	GZAV	Doris	ODM crew out
18-Jul-25	0.8	GZAV	Doris	Bear scan and samples
18-Jul-25	1	FYZF	Doris	Drill pad clean up
18-Jul-25	1.4	FYZF	Doris	Cleaning up drill pads
18-Jul-25	1.6	FYZF	Doris	Crew change
18-Jul-25	2.7	FYZF	Doris	Drill support

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
19-Jul-25	0.1	GZAV	Doris	Guy out to the field
19-Jul-25	0.2	FYZF	Doris	Weather came in needed to land
19-Jul-25	0.2	GZAV	Doris	Minnow crew out to field
19-Jul-25	0.3	GZAV	Doris	Bump gear and Guy back to site.
19-Jul-25	0.4	FYZF	Doris	Crew change
19-Jul-25	0.4	GZAV	Doris	NIC and MO and team out to the field
19-Jul-25	0.4	GZAV	Doris	Weather check for crew pickup
19-Jul-25	0.5	GZAV	Doris	Minno crew back to camp
19-Jul-25	0.5	GZAV	Doris	Nic and Mo back
19-Jul-25	0.5	GZAV	Doris	ODM sample pick up
19-Jul-25	0.5	GZAV	Doris	Aurora back to camp
19-Jul-25	0.6	GZAV	Doris	ODM crew out
19-Jul-25	0.6	GZAV	Doris	Aurora Crew
19-Jul-25	0.7	FYZF	Doris	Bins dumped
19-Jul-25	0.8	GZAV	Doris	ODM crews back to camp
19-Jul-25	6.9	FYZF	Doris	Drill support
20-Jul-25	0	FYZF	N/A	Machine broke down at 18:00
20-Jul-25	0.2	GZAV	Doris	Minnow crew back to camp
20-Jul-25	0.2	GZAV	Doris	Minnow crew bump
20-Jul-25	0.3	GZAV	Doris	Minnow crew out to field
20-Jul-25	0.4	FYZF	Doris	Crew change
20-Jul-25	0.4	FYZF	Doris	Drill support Bins
20-Jul-25	0.4	GZAV	Doris	Crew change

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
20-Jul-25	0.5	GZAV	Doris	Crew change B3 broke down
20-Jul-25	0.5	GZAV	Doris	ODM Sample pickup
20-Jul-25	1.6	FYZF	Doris	Drill move 12
20-Jul-25	2.5	FYZF	Doris	Drill support
20-Jul-25	3.3	FYZF	Doris	Drill Move 12
20-Jul-25	4.8	GZAV	Doris	Drill support
21-Jul-25	0	FYZF	N/A	Heli broke down
21-Jul-25	0.2	GZAV	Doris	Jason out to minnow crew
21-Jul-25	0.2	GZAV	Doris	Minnow to field
21-Jul-25	0.3	GZAV	Doris	Enviro to out flow
21-Jul-25	0.3	GZAV	Doris	Jason back to camp
21-Jul-25	0.3	GZAV	Doris	Minnow crew back to camp
21-Jul-25	0.4	GZAV	Doris	Auro crew to bump
21-Jul-25	0.4	GZAV	Doris	Aurora crew back
21-Jul-25	0.5	GZAV	Doris	ODM back to camp
21-Jul-25	0.5	GZAV	Doris	ODM back to site
21-Jul-25	0.6	GZAV	Doris	Crew change
21-Jul-25	0.6	GZAV	Doris	Aurora crew out
21-Jul-25	1.1	GZAV	Doris	ODM crew out
21-Jul-25	8.6	GZAV	Doris	Drill support
22-Jul-25	0.2	FYZF	Doris	Drill support
22-Jul-25	0.2	GZAV	Doris	Jason back to camp
22-Jul-25	0.3	GZAV	Doris	Jason out to the minnow crew

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
22-Jul-25	0.3	GZAV	Doris	Minnow crew out
22-Jul-25	0.4	FYZF	Doris	Crew change
22-Jul-25	0.4	FYZF	Doris	Drill clean-up
22-Jul-25	0.4	GZAV	Doris	Crew change
22-Jul-25	0.4	GZAV	Doris	Minnow crew back to site
22-Jul-25	0.5	GZAV	Doris	Aurora back to camp
22-Jul-25	0.5	GZAV	Doris	Aurora crew out
22-Jul-25	0.6	GZAV	Doris	Nic and MO back to camp
22-Jul-25	0.7	GZAV	Doris	Nic and MO out in the field
22-Jul-25	1	GZAV	Doris	ODM crew back
22-Jul-25	1	GZAV	Doris	ODM crew out
22-Jul-25	1.3	FYZF	Doris	Clean up around
22-Jul-25	1.3	FYZF	Doris	Drill pad clen up
22-Jul-25	4	GZAV	Doris	Drill support
22-Jul-25	4.8	FYZF	Doris	Drill support
23-Jul-25	0.3	GZAV	Doris	Drill rig inspection DR12
23-Jul-25	0.3	GZAV	Doris	Minnow crew out
23-Jul-25	0.4	FYZF	Doris	Crew change
23-Jul-25	0.4	GZAV	Doris	IP crew out
23-Jul-25	0.5	GZAV	Doris	Minnow crew back to camp
23-Jul-25	0.5	GZAV	Doris	ODM Crew back to camp
23-Jul-25	0.5	GZAV	Doris	Aurora IP back to camp
23-Jul-25	0.7	GZAV	Doris	ODM Crew and Samples to Camp

Date	Time (Hours)	Aircraft	Location	Purpose
23-Jul-25	0.9	GZAV	Doris	-
23-Jul-25	1.2	GZAV	Doris	-
23-Jul-25	1.2	GZAV	Doris	ODM crew out
23-Jul-25	3.3	FYZF	Doris	Drill support
24-Jul-25	0.2	FZAV	Doris	Crew Change Rig 12
24-Jul-25	0.3	FZAV	Doris	Minnow Crew to Windy Outflow
24-Jul-25	0.3	FYZF	Doris	Drill Support 12
24-Jul-25	0.3	FYZF	Doris	Pad Builders to camp
24-Jul-25	0.4	FYZF	Doris	Crew change
24-Jul-25	0.4	FZAV	Doris	Minnow crew back to camp
24-Jul-25	0.4	FYZF	Doris	Crew Change 12
24-Jul-25	0.4	FYZF	Doris	Drill Service 12
24-Jul-25	0.4	FZAV	Doris	Aurora Geophysics crew back to camp
24-Jul-25	0.5	FZAV	Doris	Aurora Crew to Field
24-Jul-25	0.9	FYZF	Doris	Drill Support 4 + 5 + 10
24-Jul-25	1	FYZF	Doris	Drill Service 4 + 14 + 10
24-Jul-25	1.3	FYZF	Doris	Drill Floor support
24-Jul-25	2	FYZF	Doris	Drill support
24-Jul-25	3.1	FYZF	Doris	Drill support
25-Jul-25	0.2	FYZF	Doris	Aborted due to Fog
25-Jul-25	0.2	FYZF	Doris	Pickup Night Shift from 12
25-Jul-25	0.4	FYZF	Doris	Crew Change 12
25-Jul-25	0.5	FYZF	Doris	Crew Change 4

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
25-Jul-25	0.5	FZAV	Doris	Keith and Sam to Rig 12
25-Jul-25	0.6	FYZF	Doris	Drill Support 5 + 10
25-Jul-25	0.6	FYZF	Doris	Drill Support 12
25-Jul-25	0.7	FZAV	Doris	Minnow Crew
25-Jul-25	0.8	FYZF	Doris	Drill Support 14 + 5
25-Jul-25	0.8	FYZF	Doris	-
25-Jul-25	1	FZAV	Doris	Ruth to two Patch Lake sites then Camp
25-Jul-25	1.5	FYZF	Doris	Drill Support 4 + 5 + 10 + 9 + 14
25-Jul-25	1.6	FYZF	Doris	Drill support
26-Jul-25	0.1	FZAV	Doris	Minnow Crew to camp
26-Jul-25	0.1	FZAV	Doris	Ruth and Mo to Camp
26-Jul-25	0.2	FYZF	Doris	Crew Change 4
26-Jul-25	0.2	FYZF	Doris	Drill Support 4
26-Jul-25	0.2	FZAV	Doris	Minnow Crew
26-Jul-25	0.2	FYZF	Doris	Crew Change 12
26-Jul-25	0.2	FYZF	Doris	Crew for Drill move THA 12
26-Jul-25	0.2	FYZF	Doris	Support 12
26-Jul-25	0.2	FZAV	Doris	Geotech crew to 12 for Drill Move
26-Jul-25	0.3	FYZF	Doris	Drill Support Rig 12
26-Jul-25	0.3	FZAV	Doris	pad builder to peanut lake pad
26-Jul-25	0.3	FZAV	Doris	Thomas (5th Man back to Camp)
26-Jul-25	0.3	FZAV	Doris	Keith and Crew to camp
26-Jul-25	0.3	FZAV	Doris	Keith and Crew to Ida Point

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
26-Jul-25	0.4	FZAV	Doris	Drill Support 5
26-Jul-25	0.4	FZAV	Doris	Gear Sling for Minnow Crew
26-Jul-25	0.4	FZAV	Doris	Aurora Crew to camp
26-Jul-25	0.4	FZAV	Doris	Crew to southern IP Grid
26-Jul-25	0.5	FYZF	Doris	Drill Support 12
26-Jul-25	0.6	FZAV	Doris	Ruth and Mo to Patch Lake
26-Jul-25	0.6	FZAV	Doris	Ruth and Mo to Spider Lake
26-Jul-25	1.2	FYZF	Doris	Drill Support Madrid drills
26-Jul-25	1.5	FYZF	Doris	Drill Support Madrid rigs
26-Jul-25	1.7	FYZF	Doris	Drill Move Rig 12
26-Jul-25	3.3	FYZF	Doris	Drill Support 4 + 5 + 9 + 10 + 14
27-Jul-25	0.1	FZAV	Doris	Minnow Crew back to camp
27-Jul-25	0.2	FYZF	Doris	Drill Support Rig 9
27-Jul-25	0.2	FZAV	Doris	Minnow Crew
27-Jul-25	0.2	FZAV	Doris	Move crew to new location
27-Jul-25	0.2	FZAV	Doris	Sling Gear to new location
27-Jul-25	0.2	FYZF	Doris	Drill support
27-Jul-25	0.2	FYZF	Doris	Mechanic to camp
27-Jul-25	0.2	FZAV	Doris	Ruth and Mo to North end of Spyder Lake
27-Jul-25	0.3	FZAV	Doris	Enviro crew back to camp
27-Jul-25	0.3	FZAV	Doris to Boston	Enviro to Boston for Water Samples
27-Jul-25	0.3	FYZF	Doris	Mechanic to 12
27-Jul-25	0.3	FZAV	Doris	Keith and crew from Ida Point back to camp

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
27-Jul-25	0.3	FZAV	Doris	Keith and Crew to Ida Point
27-Jul-25	0.3	FZAV	Doris	Ruth and Mo back to camp
27-Jul-25	0.3	FZAV	Doris	Ruth and Mo to location 10nm SW of Doris
27-Jul-25	0.4	FZAV	Doris	Chris K. to Rig 12 for Drill Audit
27-Jul-25	0.4	FZAV	Doris	Aurora Crew to South Grid
27-Jul-25	0.4	FZAV	Doris	Crew and gear bump
27-Jul-25	0.4	FZAV	Doris	IP crew back to camp
27-Jul-25	0.5	FYZF	Doris	Crew Change 12
27-Jul-25	0.6	FYZF	Doris	Drill support
27-Jul-25	0.6	FYZF	Doris	Drill Support 4
27-Jul-25	0.6	FYZF	Doris	Crew Change 4
27-Jul-25	0.9	FYZF	Doris	Drill Support Madrid
27-Jul-25	1.1	FYZF	Doris	Pad builders
27-Jul-25	1.3	FYZF	Doris	Drill Support 4 + 5 + 9 + 10
27-Jul-25	1.5	FYZF	Doris	Drill Support 12
27-Jul-25	2.2	FYZF	Doris	-
27-Jul-25	3.4	FYZF	Doris	-
28-Jul-25	0.2	FZAV	Doris	Minnow back to camp
28-Jul-25	0.2	FZAV	Doris	Minnow Crew
28-Jul-25	0.2	FYZF	Doris	Crew Change 12
28-Jul-25	0.2	FYZF	Doris	Drill Support 12
28-Jul-25	0.2	FYZF	Doris	Fifth man to rig 4
28-Jul-25	0.2	FZAV	Doris	Keith and crew back to camp

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
28-Jul-25	0.3	FZAV	Doris	Minnow crew and gear bump
28-Jul-25	0.3	FYZF	Doris	Support 12
28-Jul-25	0.3	FZAV	Doris	Keith and Crew to Ida Point
28-Jul-25	0.3	FZAV	Doris	Ruth and Mo back to camp
28-Jul-25	0.3	FZAV	Doris	Ruth and Mo to Ida Point
28-Jul-25	0.3	FZAV	Doris	Aurora back to camp
28-Jul-25	0.4	FYZF	Doris	Crew Change 4
28-Jul-25	0.4	FZAV	Doris	Aurora Crew
28-Jul-25	0.5	FYZF	Doris	Crew Change 4 and 12
28-Jul-25	0.6	FZAV	Doris	Aurora Gear and crew bump
28-Jul-25	0.7	FYZF	Doris	Drill Support Madrid
28-Jul-25	0.8	FYZF	Doris	Drill Move
28-Jul-25	0.9	FYZF	Doris	Pad builders
28-Jul-25	1.1	FYZF	Doris	Support 9 + 14 + 5
28-Jul-25	1.1	FYZF	Doris	Drill Move 4
28-Jul-25	1.4	FYZF	Doris	Support 12
28-Jul-25	1.6	FYZF	Doris	Support 5 + 14
29-Jul-25	0.2	FZAV	Doris	Minnow crew out
29-Jul-25	0.2	FYZF	Doris	To Drill 4 for Drill move THA
29-Jul-25	0.3	FYZF	Doris	Support 12
29-Jul-25	0.3	FZAV	Doris	Gear Sling
29-Jul-25	0.3	FZAV	Doris	Gear to camp
29-Jul-25	0.3	FYZF	Doris	Support 12

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
29-Jul-25	0.3	FZAV	Doris	Ruth and Mo to Camp
29-Jul-25	0.3	FZAV	Doris	Ruth to Ida Point
29-Jul-25	0.3	FZAV	Doris	Crew to Camp
29-Jul-25	0.4	FYZF	Doris	Support Madrid
29-Jul-25	0.4	FZAV	Doris	Gear to camp
29-Jul-25	0.5	FZAV	Doris	Gear and crew to camp
29-Jul-25	0.5	FZAV	Doris	Aurora to south Grid
29-Jul-25	0.6	FYZF	Doris	Drill Support 4
29-Jul-25	1	FYZF	Doris	Crew Change 4 + 12
29-Jul-25	1	FYZF	Doris	Drill Support 4 + 12
29-Jul-25	1.2	FYZF	Doris	Support 14 + 5 + 9 + 10
29-Jul-25	1.4	GUTI	Doris	Ferry YK to Doris Leg 2
29-Jul-25	1.4	FYZF	Doris	Drill Support 5 + 9
29-Jul-25	1.6	GUTI	Doris	YK to Doris Leg 3
29-Jul-25	1.7	FYZF	Doris	Drill Support 12
29-Jul-25	1.8	GUTI	Doris	Ferry from YK to Doris Leg 1
29-Jul-25	2.1	FYZF	Doris	Drill Support Madrid
29-Jul-25	4.7	FYZF	Doris	Drill Move 4
30-Jul-25	0.2	FYZF	Doris	Madrid Support
30-Jul-25	0.3	FYZF	Doris	Support Regional
30-Jul-25	0.3	FZAV	Doris	Inspection Rig 12
30-Jul-25	0.3	FZAV	Doris	Inspection Rig 4
30-Jul-25	0.4	FYZF	Doris	Support 9

Date	Time (Hours)	Aircraft	Location	Purpose
30-Jul-25	0.4	FYZF	Doris	Crew change
30-Jul-25	0.4	FYZF	Doris	Crew Change 4 + 12
30-Jul-25	0.5	GUTI	Doris	Support 5 + 9
30-Jul-25	0.5	GUTI	Doris	Crew Change 4 + 12
30-Jul-25	0.6	FYZF	Doris	Drill support
30-Jul-25	0.6	FYZF	Doris	Regional Support
30-Jul-25	0.6	GUTI	Doris	Support 4 and 12
30-Jul-25	0.8	FYZF	Doris	Support 4 and 12
30-Jul-25	0.8	FZAV	Doris	-
30-Jul-25	0.9	FYZF	Doris	Support 4 + 12
30-Jul-25	1.1	FYZF	Doris	Drill Support regional
30-Jul-25	1.2	GUTI	Doris	Support 14 + 5 + 10
30-Jul-25	1.4	GUTI	Doris	Fly to ULU
30-Jul-25	1.5	FYZF	Doris	Support Madrid
30-Jul-25	1.6	GUTI	Doris	Drill Support 4 + 12
31-Jul-25	0.2	GUTI	Doris	Reposition from airstrip fuel to loop
31-Jul-25	0.2	GUTI	Doris	Reposition to Airstrip
31-Jul-25	0.2	GUTI	Doris	Reposition to Loop
31-Jul-25	0.3	FYZF	Doris	Support 9
31-Jul-25	0.3	FYZF	Doris	Drill Support 4
31-Jul-25	0.3	GAVF	Doris	Ruth and Mo back to camp
31-Jul-25	0.4	FYZF	Doris	Drill Support 9 + 5
31-Jul-25	0.4	GZAV	Doris	Ruth and Mo to Ida Point

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
31-Jul-25	0.5	GAVF	Doris	Drill Inspections 4 and 12
31-Jul-25	0.7	GUTI	Doris	High Altitude calibration flight
31-Jul-25	0.8	GUTI	Doris	Low level flight calibration
31-Jul-25	0.8	FYZF	Doris	Crew Change 4 + 12
31-Jul-25	1.2	FYZF	Doris	Support 4 + 12
31-Jul-25	1.5	FYZF	Doris	Drill Support 14 + 5 +10
31-Jul-25	1.5	FYZF	Doris	Drill Support 4 + 12
31-Jul-25	1.6	FYZF	Doris	Drill Support Madrid
31-Jul-25	2.8	FYZF	Doris	Drill Support regional
1-Aug-25	0	GUTI	N/A	Weather
1-Aug-25	0.2	FYZF	Doris	-
1-Aug-25	0.2	FYZF	Doris	Pad building Crew
1-Aug-25	0.2	FYZF	Doris	Support Regional
1-Aug-25	0.3	FYZF	Doris	Support Madrid
1-Aug-25	0.3	GAVF	Doris	CDF Technician and Mat L. to rig 4
1-Aug-25	0.3	GAVF	Doris	CDF Technician to Rig 4
1-Aug-25	0.3	GAVF	Doris	CDF technicians and Mat L back to camp
1-Aug-25	0.3	GAVF	Doris	Keith and crew back to camp
1-Aug-25	0.4	FYZF	Doris	Drill Support 5
1-Aug-25	0.4	GAVF	Doris	Keith and Crew
1-Aug-25	0.5	FYZF	Doris	Support Regional
1-Aug-25	0.7	GAVF	Doris	Carden and Dustin collar stakeouts and final pickups
1-Aug-25	0.9	FYZF	Doris	Crew Change 4 + 12

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
1-Aug-25	1	FYZF	Doris	Support Madrid
1-Aug-25	1.3	FYZF	Doris	Drill support
1-Aug-25	1.4	FYZF	Doris	Support 14 + 5 + 9 + 10
1-Aug-25	1.4	FYZF	Doris	Drill Support 4 + 12
1-Aug-25	3.6	FYZF	Doris	-
2-Aug-25	0.2	GUTI	Doris	Reposition for Fuel
2-Aug-25	0.2	GUTI	Doris	Reposition to loop
2-Aug-25	0.2	FYZF	Doris	CDF techs and Josh from Drill 4 to camp
2-Aug-25	0.2	FYZF	Doris	CDF techs and Josh to rig 4
2-Aug-25	0.2	FYZF	Doris	Support Pad builders
2-Aug-25	0.2	GAVF	Doris	CDF technicians back to camp
2-Aug-25	0.3	FYZF	Doris	CDF and Mat to Rig 4
2-Aug-25	0.3	FYZF	Doris	Pad Builders out
2-Aug-25	0.3	GAVF	Doris	Keith and crew back to camp
2-Aug-25	0.4	GUTI	Doris	Reposition
2-Aug-25	0.4	FYZF	Doris	Regional Support
2-Aug-25	0.4	GAVF	Doris	Keith and Crew
2-Aug-25	0.7	GAVF	Doris	Ruth and Mo back to camp
2-Aug-25	0.8	GAVF	Boston	Ruth and Mo near Boston
2-Aug-25	0.9	FYZF	Doris	Crew Change 4 + 12
2-Aug-25	1	FYZF	Doris	Support Regional
2-Aug-25	1.1	FYZF	Doris	Support 14 + 5 + 9
2-Aug-25	1.3	FYZF	Doris	Support 14 + 5 + 9 + 10

Date	Time (Hours)	Aircraft	Location	Purpose
2-Aug-25	1.8	FYZF	Doris	Support Madrid
2-Aug-25	2.5	FYZF	Doris	Support 4 + 12
2-Aug-25	4.2	GUTI	Doris	Survey
3-Aug-25	0.2	GUTI	Doris	Loop Problem
3-Aug-25	0.2	GUTI	Doris	Reposition for Fuel
3-Aug-25	0.2	FYZF	Doris	Support Regional
3-Aug-25	0.4	FYZF	Doris	Support Regional Drilling
3-Aug-25	0.7	FYZF	Doris	Support 5 + 14
3-Aug-25	0.8	FYZF	Doris	Support Madrid
3-Aug-25	0.9	FYZF	Doris	Crew Change 4 + 12
3-Aug-25	0.9	GAVF	Doris	Rig inspections 4 and 12
3-Aug-25	1	FYZF	Doris	-
3-Aug-25	1	GAVF	Doris	Ruth, Mo, Joel back to camp
3-Aug-25	1	GAVF	Boston	Ruth, Mo, Joel out near Boston
3-Aug-25	1.3	FYZF	Doris	Support 10 + 14 + 5 + 9
3-Aug-25	1.3	FYZF	Doris	Support 4 + 12
3-Aug-25	3.1	FYZF	Doris	-
3-Aug-25	4.8	GUTI	Doris	Survey
4-Aug-25	0.4	FYZF	Doris	Crew Change rigs 4 and 12
4-Aug-25	0.4	GAVF	Doris	Drill Pad Survey
4-Aug-25	0.5	FYZF	Doris	Drill Support Madrid
4-Aug-25	0.5	FYZF	Doris	Crew Change 4 + 12
4-Aug-25	0.6	FYZF	Doris	Support 5 + 14

Date	Time (Hours)	Aircraft	Location	Purpose
4-Aug-25	0.9	GAVF	Doris	Ruth, Mo, Joel back to camp
4-Aug-25	1	GUTI	Doris	Reposition for Fuel
4-Aug-25	1	FYZF	Doris	Drill Support regional
4-Aug-25	1	GAVF	Boston	Ruth, Mo, Joel SE of Boston Camp
4-Aug-25	1.3	FYZF	Doris	Support Regional
4-Aug-25	3.5	FYZF	Doris	Support Madrid
4-Aug-25	7.6	GUTI	Doris	Survey
5-Aug-25	0.2	GUTI	Doris	Reposition for Fuel
5-Aug-25	0.3	GAVF	Doris	Pickup Keith and Crew
5-Aug-25	0.5	GAVF	Doris	Drop of Keith and Crew
5-Aug-25	0.7	FYZF	Doris	Drill Support Madrid
5-Aug-25	0.7	FYZF	Doris	Service Madrid
5-Aug-25	0.8	GAVF	Doris	Slinging Megabags of snow fencing from North side of Doris Mtn.
5-Aug-25	0.8	FYZF	Doris	Drill Support regional
5-Aug-25	0.9	FYZF	Doris	Service Regional
5-Aug-25	1	FYZF	Doris	Crew Change 4 + 12
5-Aug-25	1.6	FYZF	Doris	Support Madrid
5-Aug-25	1.7	FYZF	Doris	Support Regional
5-Aug-25	1.9	FYZF	Doris	-
5-Aug-25	2.8	GUTI	Doris	Survey
6-Aug-25	0.2	GUTI	Doris	Reposition for Fuel
6-Aug-25	0.2	FYZF	Doris	Trevor from Rig
6-Aug-25	0.3	GAVF	Doris	BluMetric Pickup

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
6-Aug-25	0.3	GAVF	Doris	BluMetric team to Roberts Lake
6-Aug-25	0.4	GAVF	Doris	Glenn Lake water samples
6-Aug-25	0.6	FYZF	Doris	Drill service
6-Aug-25	0.8	GAVF	Doris	Ruth and Mo
6-Aug-25	0.9	GAVF	Boston	Ruth and Mo near Boston
6-Aug-25	1	FYZF	Doris	Crew change
6-Aug-25	2	FYZF	Doris	Drill service
6-Aug-25	4.2	GUTI	Doris	Survey
7-Aug-25	0.2	GUTI	Doris	Move for fuel
7-Aug-25	0.3	FYZF	Doris	Drill move THA discussion
7-Aug-25	0.3	GAVF	Doris	Crew to clen up 12 floor
7-Aug-25	0.3	GAVF	Doris	Pad crew back from 12
7-Aug-25	0.3	GAVF	Doris	Ruth and Mo drop off
7-Aug-25	0.3	GAVF	Doris	Ruth and Mo return
7-Aug-25	0.6	GAVF	Doris	Move Mo and Ruth
7-Aug-25	1	FYZF	Doris	Crew change
7-Aug-25	2.8	GUTI	Doris	Survey
7-Aug-25	3.4	FYZF	Doris	Drill support
7-Aug-25	3.8	FYZF	Doris	Drill Move
7-Aug-25	5.1	FYZF	Doris	Drill support
8-Aug-25	0.2	GUTI	Doris	Move to refuel
8-Aug-25	0.3	FYZF	Doris	Carden and Dustin back from 4
8-Aug-25	0.3	GAVF	Doris	Carden Dusty out to help survey

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
8-Aug-25	0.3	GAVF	Doris	Crew out to clean up pad 12
8-Aug-25	0.5	FYZF	Doris	Crew change
8-Aug-25	0.5	FYZF	Doris	Crew change
8-Aug-25	0.6	GAVF	Doris	Crew back from pad 12 floor
8-Aug-25	0.8	GAVF	Doris	John Paul and Sean.
8-Aug-25	2.9	FYZF	Doris	Drill support
8-Aug-25	3.8	FYZF	Doris	Drill support
8-Aug-25	4.7	GUTI	Doris	Ulu survey
9-Aug-25	0.2	GAVF	Doris	Nic's crew
9-Aug-25	0.2	GUTI	Doris	Bump for fuel
9-Aug-25	0.2	GAVF	Doris	Enviro crew back to camp
9-Aug-25	0.2	FYZF	Doris	THA for drill move Construction
9-Aug-25	0.2	GAVF	Doris	Nic back from 12
9-Aug-25	0.3	GAVF	Doris	Bump for the crew
9-Aug-25	0.3	GAVF	Doris	Crew out to field
9-Aug-25	0.3	GAVF	Doris	Enviro bump
9-Aug-25	0.3	FYZF	Doris	Drill supp
9-Aug-25	0.3	GAVF	Doris	Geotechnical hole for Construction
9-Aug-25	0.4	GAVF	Doris	Nic
9-Aug-25	0.7	FYZF	Doris	Floor set up
9-Aug-25	0.8	FYZF	Doris	Crew change
9-Aug-25	1.5	FYZF	Doris	Drill service
9-Aug-25	2.1	FYZF	Doris	Drill support

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
9-Aug-25	3.1	FYZF	Doris	Drill support
9-Aug-25	5.1	FYZF	Doris	Drill move construction
9-Aug-25	8.2	GUTI	Doris	Ulu survey
10-Aug-25	0.2	GAVF	Doris	Crew out
10-Aug-25	0.2	FYZF	Doris	Crew in from 4
10-Aug-25	0.2	GAVF	Doris	Nic back to camp
10-Aug-25	0.2	GAVF	Doris	Ruth and Mo return
10-Aug-25	0.3	GUTI	Doris	Equipment issues
10-Aug-25	0.3	GAVF	Doris	Enviro bump
10-Aug-25	0.3	GAVF	Doris	Enviro pick up bear
10-Aug-25	0.3	FYZF	Doris	Drill Support
10-Aug-25	0.3	FYZF	Doris	Crew out to 12
10-Aug-25	0.4	GAVF	Doris	Ruth and Mo out
10-Aug-25	0.6	FYZF	Doris	Drill support
10-Aug-25	0.7	FYZF	Doris	Construction hole
10-Aug-25	0.7	GAVF	Doris	John out and Bryon
10-Aug-25	0.8	FYZF	Doris	Drill service
10-Aug-25	0.9	GAVF	Doris	Ruth and Mo 2 bumps
10-Aug-25	1	FYZF	Doris	Drill service
10-Aug-25	1.4	FYZF	Doris	Drill support
10-Aug-25	1.8	FYZF	Doris	Move drill to construction hole
10-Aug-25	3.5	FYZF	Doris	Drill support
10-Aug-25	8.2	GUTI	Doris	Hani survey

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
11-Aug-25	0.2	GAVF	Doris	Enviro crew out
11-Aug-25	0.2	GAVF	Doris	Pick up enviro crew
11-Aug-25	0.2	GAVF	Doris	Pad 4
11-Aug-25	0.2	GAVF	Doris	Ruth and Mo back
11-Aug-25	0.3	GUTI	Doris	Loop issues
11-Aug-25	0.3	FYZF	Doris	Drill support
11-Aug-25	0.3	FYZF	Doris	Drill support
11-Aug-25	0.3	GAVF	Doris	Ruth and Mo out
11-Aug-25	0.4	GUTI	Doris	Hani survey
11-Aug-25	0.6	GAVF	Doris	Shackles out to rob bay and pick up
11-Aug-25	0.9	GAVF	Doris	Enviro multiple bumps
11-Aug-25	0.9	FYZF	Doris	Crew change
11-Aug-25	1.1	FYZF	Doris	Drill support
11-Aug-25	2.6	GUTI	Doris	Hani survey
11-Aug-25	2.8	GUTI	Doris	BLUE STAR
11-Aug-25	4	FYZF	Doris	Drill support
12-Aug-25	0.2	GAVF	Doris	Ruth and Mo back
12-Aug-25	0.3	FYZF	Doris	Geo hole for construction
12-Aug-25	0.3	GAVF	Doris	Ruth and Mo out
12-Aug-25	0.4	FYZF	Doris	Geo construction drill support
12-Aug-25	0.7	GAVF	Doris	Nic and crew back
12-Aug-25	0.7	GAVF	Doris	Nic crew out
12-Aug-25	0.7	FYZF	Doris	Crew change

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
12-Aug-25	0.9	GAVF	Doris to Boston	Crew out to Boston
12-Aug-25	0.9	GAVF	Doris	Enviro crew back to camp
12-Aug-25	2	FYZF	Doris	Drill support
12-Aug-25	2.7	GUTI	Doris	Blue stars survey
12-Aug-25	5.1	FYZF	Doris	Drill support
12-Aug-25	5.5	GUTI	Doris	Blue starts survey
13-Aug-25	0.2	FYZF	Doris	Geo construction drill support
13-Aug-25	0.2	FYZF	Doris	Index out for centrifuge
13-Aug-25	0.2	GAVF	Doris	Ruth and Mo pick up
13-Aug-25	0.3	FYZF	Doris	Geo construction drill support
13-Aug-25	0.3	GAVF	Doris	Ruth and Mo out
13-Aug-25	0.3	FYZF	Doris	Drill support
13-Aug-25	0.6	GAVF	Doris	Nic and crew back to camp
13-Aug-25	0.6	FYZF	Doris	Drill support
13-Aug-25	0.7	GAVF	Doris	Nic and crew out
13-Aug-25	0.8	GAVF	Doris	Dust Fall
13-Aug-25	0.8	FYZF	Doris	Crew change
13-Aug-25	0.8	FYZF	Doris	Drill support
13-Aug-25	0.9	GAVF	Doris to Boston	Boston Crew back to camp
13-Aug-25	0.9	GAVF	Doris to Boston	Enviro crew out to Boston
13-Aug-25	1	GUTI	Doris	Ferry to Yellowknife
13-Aug-25	1.4	GUTI	Doris	Blue start survey
13-Aug-25	1.5	FYZF	Doris	Drill support
13-Aug-25	2	GUTI	Doris	Ferry back to Yellowknife

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
14-Aug-25	0.2	GAVF	Doris	Crew out
14-Aug-25	0.2	GAVF	Doris	Sling rebar back
14-Aug-25	0.2	GAVF	Doris	Drill support
14-Aug-25	0.2	GAVF	Doris	Nic back to camp
14-Aug-25	0.2	GAVF	Doris	Nic to drill 12
14-Aug-25	0.3	GAVF	Doris	Crew change
14-Aug-25	0.4	FYZF	Doris	Geo construction drill support
14-Aug-25	0.4	GAVF	Doris	Inspection on drill 12
14-Aug-25	0.6	FYZF	Doris	Drill support then fog rolled in
14-Aug-25	0.9	FYZF	Doris	Crew change
14-Aug-25	1.2	FYZF	Doris	Drill support
14-Aug-25	2.5	FYZF	Doris	Drill support
15-Aug-25	0.7	GAVF	Doris to Boston	Crew back from Boston
15-Aug-25	0.7	GAVF	Doris to Boston	Crew out to Boston
15-Aug-25	0.8	FYZF	Doris	Crew change
15-Aug-25	1.5	FYZF	Doris	Drill Move
15-Aug-25	1.7	FYZF	Doris	Drill support
15-Aug-25	2.4	FYZF	Doris	Drill support
15-Aug-25	2.7	FYZF	Doris	Drill 11
16-Aug-25	0.2	FYZF	Doris	Drill support
16-Aug-25	0.3	FYZF	Doris	Drill support
16-Aug-25	0.3	GAVF	Doris	Mo and crew back
16-Aug-25	0.3	GAVF	Doris	Moe and crew out

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
16-Aug-25	0.3	FYZF	Doris	Drill support
16-Aug-25	0.4	FYZF	Doris	Crew change
16-Aug-25	0.5	FYZF	Doris	Crew change
16-Aug-25	0.6	GAVF	Doris	Nic and crew out to field
16-Aug-25	0.7	GAVF	Doris	Nic and crew back
16-Aug-25	0.9	GAVF	Doris	Pad reclamation
16-Aug-25	1.5	FYZF	Doris	Drill support
16-Aug-25	2.6	GAVF	Doris	Drill pad reclamation
16-Aug-25	3.1	FYZF	Doris	Drill support
17-Aug-25	0.1	GAVF	Doris	Byron into camp
17-Aug-25	0.2	FYZF	Doris	Geo construction drill support
17-Aug-25	0.2	GAVF	Doris	Byron out to drills
17-Aug-25	0.3	GAVF	Doris	Out to patch lake
17-Aug-25	0.4	FYZF	Doris	Crew change
17-Aug-25	0.4	GAVF	Doris	Intermittent issues
17-Aug-25	0.5	GAVF	Doris	Nic and crew out to camp.
17-Aug-25	0.5	GAVF	Doris	Nic into camp
17-Aug-25	0.5	FYZF	Doris	Crew change
17-Aug-25	0.6	GAVF	Doris	Pad reclamation
17-Aug-25	1.2	FYZF	Doris	Drill support
17-Aug-25	1.3	FYZF	Doris	Drill support
17-Aug-25	1.3	GAVF	Doris	Drill pad reclamation

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
18-Aug-25	0.2	FYZF	Doris	Crew change
18-Aug-25	0.3	FYZF	Doris	Crew change
18-Aug-25	0.5	GAVF	Doris	Enviro return to camp
18-Aug-25	0.6	GAVF	Doris	Enviro out to Patch
18-Aug-25	0.6	FYZF	Doris	Drill support
18-Aug-25	0.7	GAVF	Doris	Man Academic crew
18-Aug-25	0.7	GAVF	Doris	Man and her crew Academic
18-Aug-25	0.9	FYZF	Doris	Drill support
18-Aug-25	1.5	GAVF	Doris	Pad rec
19-Aug-25	0.3	GAVF	Doris	Crew back to camp
19-Aug-25	0.3	FYZF	Doris	Drill support
19-Aug-25	0.3	GAVF	Doris	Mo and crew back from View
19-Aug-25	0.4	GAVF	Doris	Mo and crew out to View
19-Aug-25	0.5	GAVF	Doris	Out to Ref IK B
19-Aug-25	0.6	GAVF	Doris	Nic and crew back from Elu
19-Aug-25	0.6	GAVF	Doris	Nic and crew out
19-Aug-25	0.6	GAVF	Doris	Eric to and from 12
19-Aug-25	0.6	FYZF	Doris	Crew change
19-Aug-25	0.7	FYZF	Doris	Crew change
19-Aug-25	0.8	FYZF	Doris	Drill support
19-Aug-25	1	GAVF	Doris	Out to Wolverine sling boat
19-Aug-25	1.1	FYZF	Doris	Drill pad rec
19-Aug-25	1.4	FYZF	Doris	Drill support
19-Aug-25	1.4	FYZF	Doris	Drill support

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
20-Aug-25	0.2	FYZF	Doris	Geo construction drill service
20-Aug-25	0.2	FYZF	Doris	Drill service
20-Aug-25	0.3	GAVF	Doris	Enviro out
20-Aug-25	0.3	FYZF	Doris	Crew in from pad crew
20-Aug-25	0.3	GAVF	Doris	Crew out to 12
20-Aug-25	0.3	FYZF	Doris	Drill service
20-Aug-25	0.4	FYZF	Doris	Crew change
20-Aug-25	0.4	FYZF	Doris	Drill support
20-Aug-25	0.5	FYZF	Doris	Crew change
20-Aug-25	0.7	GAVF	Doris	Sling boat and crew
20-Aug-25	0.8	FYZF	Doris	Drill support
20-Aug-25	0.8	GAVF	Doris	Survey out to rig
20-Aug-25	5.4	FYZF	Doris	Drill Move
21-Aug-25	0.3	GAVF	Doris	-
21-Aug-25	1.8	FYZF	Doris	-
21-Aug-25	5.3	FYZF	Doris	-
22-Aug-25	0.3	GAVF	Doris	-
22-Aug-25	0.4	GAVF	Doris	Byron to Rig 12 for Drill Audit
22-Aug-25	0.4	GAVF	Doris	-
22-Aug-25	0.5	GAVF	Boston	-
22-Aug-25	0.5	GAVF	Doris to Boston	Yan and Sean Q. to Boston
22-Aug-25	0.5	GAVF	Doris	Keith and Issaga to Elu
22-Aug-25	2.2	FYZF	Doris	-
22-Aug-25	3.3	FYZF	Doris	-

Date	Time (Hours)	Aircraft	Location	Purpose
23-Aug-25	0.3	GAVF	Doris	Chris King back from Drill 12
23-Aug-25	0.3	GAVF	Doris	Chris King to Drill 12 for Centrifuge repair
23-Aug-25	0.6	GAVF	Doris	Keith and Issaga back to camp
23-Aug-25	0.6	GAVF	Doris	Keith and Issaga to Elu
23-Aug-25	0.8	FYZF	Doris	Support 11 + 12
23-Aug-25	1.6	GAVF	Doris	-
23-Aug-25	3.4	FYZF	Doris	-
23-Aug-25	4.8	FYZF	Doris	-
24-Aug-25	0.2	FYZF	Doris	Rig 5
24-Aug-25	0.5	GAVF	Doris	Floor lineups (Eric B.)
24-Aug-25	0.7	FYZF	Doris	replace tower rig 5
24-Aug-25	1.6	FYZF	Doris	-
24-Aug-25	1.7	FYZF	Doris	-
24-Aug-25	2	GAVF	Doris	-
25-Aug-25	0.3	GAVF	Doris	Nick B and Manon back to camp
25-Aug-25	0.4	GAVF	Doris	Nick B. and Manon to 12
25-Aug-25	0.5	GAVF	Doris	Keith and Issaga back to camp
25-Aug-25	0.6	GAVF	Doris	Keith and Issaga to Elu
25-Aug-25	2.6	FYZF	Doris	-
25-Aug-25	2.7	FYZF	Doris	-
26-Aug-25	0.2	GAVF	Doris	Construction Surveyors back to camp
26-Aug-25	0.2	GAVF	Doris	Construction Surveyors south of Doris Lake
26-Aug-25	0.3	GAVF	Doris	Keith and Issaga back to camp

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
26-Aug-25	0.3	GAVF	Doris	Keith and Issaga to Oro
26-Aug-25	0.3	GAVF	Doris	Manon to 12 and back to camp
26-Aug-25	0.6	GAVF	Doris	-
26-Aug-25	0.7	FYZF	Doris	-
26-Aug-25	1.9	FYZF	Doris	-
26-Aug-25	2	FYZF	Doris	-
27-Aug-25	0.2	FYZF	Doris	-
27-Aug-25	0.2	GAVF	Doris	Keith and Issaga to Oro
27-Aug-25	0.2	FYZF	Doris	Rig 11 for THA
27-Aug-25	0.3	GAVF	Doris	Keith and Issaga back to camp
27-Aug-25	1.1	FYZF	Doris	-
27-Aug-25	2.7	GAVF	Doris	Operation Dirtbag
27-Aug-25	9.9	FYZF	Doris	Drill Move Rig 11
28-Aug-25	0.7	GAVF	Doris	-
28-Aug-25	1.1	FYZF	Doris	-
28-Aug-25	4.2	FYZF	Doris	-
29-Aug-25	0.3	GAVF	Doris	Keith and Sam back to Camp
29-Aug-25	0.4	GAVF	Doris	William Naley
29-Aug-25	0.4	GAVF	Doris	-
29-Aug-25	0.5	GAVF	Doris	Will Naley
29-Aug-25	1.5	FYZF	Doris	-
29-Aug-25	3.4	FYZF	Doris	-

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
30-Aug-25	0.5	FYZF	Doris	-
30-Aug-25	1.5	GAVF	Doris	-
30-Aug-25	1.8	GAVF	Doris	-
30-Aug-25	7.4	FYZF	Doris	-
31-Aug-25	0.3	FYZF	Doris	Pad Builders
31-Aug-25	3.9	FYZF	Doris	-
1-Sep-25	0.4	FYZF	Doris	Drill Head replacement 4
1-Sep-25	0.5	GAVF	Doris	-
1-Sep-25	0.7	GAVF	Doris	Jonny, Chris to 11, 12
1-Sep-25	1	GAVF	Doris	-
1-Sep-25	2.2	FYZF	Doris	-
1-Sep-25	5.5	GAVF	Doris	-
2-Sep-25	0.2	GAVF	Doris	Pick up core retrieval crew from ORO
2-Sep-25	0.4	GAVF	Doris	Pad builders
2-Sep-25	0.5	GAVF	Doris	Crew to Oro for core retrieval project
2-Sep-25	0.6	FYZF	Doris	Historical core from Oro to camp
2-Sep-25	0.7	GAVF	Doris	Oro Core to Doris
2-Sep-25	0.7	GAVF	Doris	Eric out to survey pad
2-Sep-25	1	GAVF	Doris	-
2-Sep-25	1.1	GAVF	Doris	-
2-Sep-25	2.9	FYZF	Doris	-
2-Sep-25	3.4	GAVF	Doris	-

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
3-Sep-25	0.2	GAVF	Doris	Archeologist pick up
3-Sep-25	0.3	GAVF	Doris	Archeologists
3-Sep-25	0.3	GAVF	Doris	Pad Survey (Eric)
3-Sep-25	0.5	GAVF	Doris	-
3-Sep-25	0.5	FYZF	Doris	-
3-Sep-25	5.2	FYZF	Doris	-
4-Sep-25	0.2	GAVF	Doris	Env Hydrology
4-Sep-25	0.2	GAVF	Doris	Pad builders to new pad
4-Sep-25	0.3	GAVF	Doris	Hydrology pick-up
4-Sep-25	0.4	GAVF	Doris	Hydrology drop-off
4-Sep-25	0.5	GAVF	Doris	Crew change
4-Sep-25	0.7	GAVF	Doris	Timbers to pad builders
4-Sep-25	0.8	GAVF	Doris	Drill inspections
4-Sep-25	0.9	GAVF	Doris	Drill support
4-Sep-25	1	GAVF	Doris	Pad builders to shop, drill support
5-Sep-25	0.1	GAVF	Doris	Floor set up
5-Sep-25	0.3	GAVF	Doris	Mech back from rig 12
5-Sep-25	0.3	GAVF	Doris	Mech to drill 12
5-Sep-25	0.3	GAVF	Doris	New driller to 12
5-Sep-25	0.4	GAVF	Doris	Bump in the field
5-Sep-25	0.4	GAVF	Doris	Enviro out to field
5-Sep-25	0.5	FYZF	Doris	Crew change
5-Sep-25	0.5	GAVF	Doris	Crew change

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
5-Sep-25	0.5	GAVF	Doris	Jonny doing inspections
5-Sep-25	0.6	GAVF	Doris	Crew back to camp.
5-Sep-25	0.7	GAVF	Doris	Crew out and material moved
5-Sep-25	1.1	FYZF	Doris	Drill support
5-Sep-25	4.1	GAVF	Doris	Drill support
6-Sep-25	0.2	FYZF	Doris	Drill support
6-Sep-25	0.3	GAVF	Doris	Nic and Richard out
6-Sep-25	0.3	GAVF	Doris	Crew back in
6-Sep-25	0.3	GAVF	Doris	Floor line up
6-Sep-25	0.4	FYZF	Doris	THA FOR MOVE OF 11
6-Sep-25	0.4	GAVF	Doris	Rig Inspections
6-Sep-25	0.6	GAVF	Doris	Bump for Nic Ric
6-Sep-25	0.6	FYZF	Doris	Crew change
6-Sep-25	0.6	FYZF	Doris	Pad builders
6-Sep-25	1.4	FYZF	Doris	Drill support
6-Sep-25	1.9	FYZF	Doris	Pad building
6-Sep-25	3.7	FYZF	Doris	Drill 11 move
7-Sep-25	0.2	FYZF	Doris	Drill support dump bins
7-Sep-25	0.2	FYZF	Doris	Dump bins
7-Sep-25	0.2	FYZF	Doris	Drill 12 for THA
7-Sep-25	0.3	FYZF	Doris	Drill support
7-Sep-25	0.3	GAVF	Doris	Fly core from ore claim
7-Sep-25	0.3	GAVF	Doris	Bump the pad builders

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
7-Sep-25	0.4	GAVF	Doris	Jonny and crew out
7-Sep-25	0.4	GAVF	Doris	Jonny sling core from ORO
7-Sep-25	0.4	GAVF	Doris	Drill support
7-Sep-25	0.5	GAVF	Doris	Survey hole
7-Sep-25	0.6	FYZF	Doris	Crew change
7-Sep-25	0.6	GAVF	Doris	Material to pad builders
7-Sep-25	0.7	GAVF	Doris	Jonny and crew back to camp
7-Sep-25	0.8	GAVF	Doris	Sling core from ORO
7-Sep-25	0.9	FYZF	Doris	Pad builders and crew
7-Sep-25	0.9	GAVF	Doris	Pad Builders out
7-Sep-25	1.6	FYZF	Doris	Drill move 11
7-Sep-25	2.1	FYZF	Doris	Drill support
7-Sep-25	3.4	FYZF	Doris	Drill 12 move
8-Sep-25	0.1	GAVF	Doris	Crew to the field
8-Sep-25	0.2	GAVF	Doris	Bird crew back
8-Sep-25	0.3	GAVF	Doris	Look for the wolf
8-Sep-25	0.3	FYZF	Doris	Drill support
8-Sep-25	0.3	GAVF	Doris	Pad builders back
8-Sep-25	0.4	GAVF	Doris	Crew change
8-Sep-25	0.4	GAVF	Doris	Pad Builders out
8-Sep-25	0.5	FYZF	Doris	Crew change
8-Sep-25	0.6	GAVF	Doris	Slinging to pad builders
8-Sep-25	1.9	FYZF	Doris	Drill Move 12

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
8-Sep-25	1.9	GAVF	Doris	Drill support
8-Sep-25	2.2	FYZF	Doris	Drill Move
8-Sep-25	3.1	FYZF	Doris	Drill support
8-Sep-25	3.2	GAVF	Doris	Cameras
9-Sep-25	0.8	GAVF	Doris	Crew change
9-Sep-25	1.3	GAVF	Doris	Cameras
9-Sep-25	2.6	GAVF	Doris	Pad builders slinging loads
9-Sep-25	3.3	GAVF	Doris	Drill support
10-Sep-25	0.2	FYZF	Doris	Fly weather building to site
10-Sep-25	0.2	FYZF	Doris	Drill Support 4
10-Sep-25	0.2	FYZF	Doris	Pad builders
10-Sep-25	0.2	FYZF	Doris	Test Flight
10-Sep-25	0.3	FYZF	Doris	Flying bins for 4
10-Sep-25	0.4	GAVF	Doris	Crew change
10-Sep-25	0.5	FYZF	Doris	Crew change
10-Sep-25	0.6	FYZF	Doris	Fly bins for 4
10-Sep-25	0.6	GAVF	Doris	Pad builders
10-Sep-25	1.9	FYZF	Doris	Drill support
10-Sep-25	3.3	GAVF	Doris	Cameras
10-Sep-25	3.7	GAVF	Doris	Drill support
11-Sep-25	0	GAVF	N/A	Fly day.
11-Sep-25	0.3	FYZF	Doris	Pad builders back to camp.
11-Sep-25	0.4	FYZF	Doris	Drill explo Bins

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
11-Sep-25	0.5	FYZF	Doris	Drill support Bins for 4
11-Sep-25	0.5	FYZF	Doris	Pad builders
11-Sep-25	0.5	FYZF	Doris	Tried crew change fog rolled in
11-Sep-25	1	FYZF	Doris	Crew change
11-Sep-25	2	GAVF	Doris	Cameras
11-Sep-25	2.7	FYZF	Doris	Drill support
12-Sep-25	0.2	FYZF	Doris	Test bag handler
12-Sep-25	0.3	FYZF	Doris	Test bag handler
12-Sep-25	0.3	FYZF	Doris	Mechanic to 11
12-Sep-25	0.3	FYZF	Doris	Pad builders back
12-Sep-25	0.4	FYZF	Doris	Drill support
12-Sep-25	0.8	FYZF	Doris	Survey and mechanic back
12-Sep-25	0.9	GAVF	Doris	Dust fall samples
12-Sep-25	0.9	FYZF	Doris	Crew change
12-Sep-25	1.1	FYZF	Doris	Pad builders
12-Sep-25	1.2	GAVF	Doris	Goose to Lac de Grand
12-Sep-25	1.8	GAVF	Doris	Lac de grand to Yellowknife
12-Sep-25	2	GAVF	Doris	Hope bay to goose
12-Sep-25	2.2	FYZF	Doris	Drill support
13-Sep-25	0.2	FYZF	Doris	Pad crew
13-Sep-25	0.3	FYZF	Doris	Drill 5
13-Sep-25	0.3	FYZF	Doris	Pad builders
13-Sep-25	0.5	FYZF	Doris	Crew change

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
13-Sep-25	0.5	FYZF	Doris	Crew change
13-Sep-25	0.6	FYZF	Doris	Jonny Chris John and Enviro
13-Sep-25	1.2	FYZF	Doris	Pad rec
13-Sep-25	3.3	FYZF	Doris	Drill support
14-Sep-25	0.5	FYZF	Doris	Crew change
14-Sep-25	0.7	FYZF	Doris	Crew change
14-Sep-25	1.4	FYZF	Doris	Drill support
14-Sep-25	1.7	FYZF	Doris	Drill service
15-Sep-25	0.2	FYZF	Doris	Crew change
15-Sep-25	0.5	FYZF	Doris	Crew change
15-Sep-25	0.5	FYZF	Doris	Crew change
15-Sep-25	0.6	FYZF	Doris	Move to Dorris
15-Sep-25	1.9	FYZF	Doris	Drill move to Doris
15-Sep-25	1.9	FYZF	Doris	Move behind Doris
15-Sep-25	2.6	FYZF	Doris	Drill support
16-Sep-25	0.3	FYZF	Doris	THA for 11
16-Sep-25	0.4	FYZF	Doris	Crew change
16-Sep-25	0.5	FYZF	Doris	Crew change
16-Sep-25	0.5	FYZF	Doris	Crew change
16-Sep-25	0.7	FYZF	Doris	Drill to north of Doris
16-Sep-25	0.8	FYZF	Doris	Drill support
16-Sep-25	2.3	FYZF	Doris	Drill support
16-Sep-25	2.9	FYZF	Doris	Drill Move

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
17-Sep-25	0.2	FYZF	Doris	Crew change
17-Sep-25	0.2	FYZF	Doris	Crew change
17-Sep-25	0.3	FYZF	Doris	Bear rescue
17-Sep-25	0.4	FYZF	Doris	Drill Support 4
17-Sep-25	0.8	FYZF	Doris	Fly bins drill 4
17-Sep-25	1.1	FYZF	Doris	Crew change
17-Sep-25	1.6	FYZF	Doris	Drill move
17-Sep-25	2.1	FYZF	Doris	Drill support
17-Sep-25	2.9	FYZF	Doris	Drill Move
18-Sep-25	0.2	FYZF	Doris	Test Flight
18-Sep-25	2.3	FYZF	Doris	-
18-Sep-25	5	FYZF	Doris	-
19-Sep-25	1.6	FYZF	Doris	-
19-Sep-25	5.2	FYZF	Doris	-
20-Sep-25	0.5	FYZF	Doris	Survey
20-Sep-25	1.4	FYZF	Doris	-
20-Sep-25	7.6	FYZF	Doris	-
21-Sep-25	0.7	FYZF	Doris	-
21-Sep-25	4.1	FYZF	Doris	-
22-Sep-25	1.6	FYZF	Doris	-
22-Sep-25	5.9	FYZF	Doris	-
23-Sep-25	0.6	FYZF	Doris	-
23-Sep-25	5.4	FYZF	Doris	-

<b>Date</b>	<b>Time (Hours)</b>	<b>Aircraft</b>	<b>Location</b>	<b>Purpose</b>
24-Sep-25	0.2	FYZF	Doris	Matt From Rig 12
24-Sep-25	0.3	FYZF	Doris	Matt to rig 12
24-Sep-25	0.9	FYZF	Doris	-
24-Sep-25	3.7	FYZF	Doris	-
25-Sep-25	2.8	FYZF	Doris	-
25-Sep-25	3.2	FYZF	Doris	-
26-Sep-25	0.8	FYZF	Doris	-
26-Sep-25	2.1	FYZF	Doris	-
26-Sep-25	5.7	FYZF	Doris	Rig 11
27-Sep-25	1.1	FYZF	Doris	-
27-Sep-25	7	FYZF	Doris	-
28-Sep-25	1.3	FYZF	Doris	-
28-Sep-25	6	FYZF	Doris	-
29-Sep-25	1	FYZF	Doris	-
29-Sep-25	7.9	FYZF	Doris	-
30-Sep-25	1.5	FYZF	Doris	-
30-Sep-25	7.2	FYZF	Doris	-
1-Oct-25	0.2	FYZF	Doris	Keith to shut down rig 4
1-Oct-25	1.5	FYZF	Doris	-
1-Oct-25	6.2	FYZF	Doris	-

## APPENDIX B      FIXED-WING FLIGHT LOG, 2025



## APPENDIX B: FIXED-WING FLIGHT LOG, 2025

Date	Completed	Flight Type
1-Jan-25	No	PAX Edmonton
2-Jan-25	No	PAX Yellowknife
2-Jan-25	No	FRT Grocery
2-Jan-25	Yes	PAX Edmonton
4-Jan-25	Yes	FRT Grocery
5-Jan-25	Yes	PAX Yellowknife
8-Jan-25	Yes	PAX Edmonton
9-Jan-25	Yes	PAX Yellowknife
9-Jan-25	Yes	PAX Yellowknife
9-Jan-25	Yes	FRT Grocery
9-Jan-25	Yes	PAX Northern
10-Jan-25	Yes	Other
11-Jan-25	Yes	FRT General
12-Jan-25	Yes	Other
15-Jan-25	Yes	PAX Edmonton
16-Jan-25	Yes	PAX Yellowknife
16-Jan-25	Yes	FRT Grocery
22-Jan-25	No	PAX Edmonton
23-Jan-25	Yes	PAX Edmonton
23-Jan-25	Yes	PAX Yellowknife
23-Jan-25	Yes	FRT Grocery
24-Jan-25	Yes	PAX Yellowknife

Date	Completed	Flight Type
29-Jan-25	Yes	PAX Edmonton
30-Jan-25	Yes	PAX Yellowknife
30-Jan-25	No	FRT Grocery
30-Jan-25	No	PAX Northern
31-Jan-25	Yes	PAX Northern
1-Feb-25	No	PAX Yellowknife
3-Feb-25	Yes	FRT Grocery
5-Feb-25	Yes	PAX Edmonton
5-Feb-25	Yes	PAX Yellowknife
6-Feb-25	Yes	PAX Yellowknife
6-Feb-25	Yes	FRT Grocery
6-Feb-25	Yes	FRT General
8-Feb-25	Yes	Other
10-Feb-25	Yes	FRT General
12-Feb-25	Yes	PAX Edmonton
13-Feb-25	Yes	PAX Yellowknife
13-Feb-25	Yes	FRT Grocery
18-Feb-25	Yes	PAX Edmonton
19-Feb-25	Yes	PAX Edmonton
20-Feb-25	Yes	PAX Northern
20-Feb-25	Yes	FRT Grocery
20-Feb-25	Yes	PAX Northern
21-Feb-25	Yes	PAX Yellowknife
22-Feb-25	Yes	FRT General

Date	Completed	Flight Type
23-Feb-25	Yes	FRT General
26-Feb-25	Yes	PAX Edmonton
27-Feb-25	Yes	PAX Yellowknife
27-Feb-25	Yes	FRT Grocery
28-Feb-25	Yes	PAX Yellowknife
1-Mar-25	Yes	FRT General
2-Mar-25	Yes	FRT General
3-Mar-25	Yes	FRT General
5-Mar-25	Yes	PAX Edmonton
6-Mar-25	Yes	PAX Yellowknife
6-Mar-25	Yes	FRT Grocery
11-Mar-25	Yes	PAX Edmonton
13-Mar-25	Yes	PAX Edmonton
13-Mar-25	Yes	PAX Northern
13-Mar-25	Yes	FRT Grocery
14-Mar-25	Yes	PAX Yellowknife
16-Mar-25	Yes	PAX Yellowknife
20-Mar-25	Yes	PAX Edmonton
20-Mar-25	Yes	FRT Grocery
21-Mar-25	Yes	PAX Yellowknife
27-Mar-25	Yes	PAX Edmonton
27-Mar-25	No	FRT Grocery
28-Mar-25	Yes	PAX Yellowknife
28-Mar-25	Yes	Other

Date	Completed	Flight Type
31-Mar-25	Yes	Other
31-Mar-25	Yes	FRT General
1-Apr-25	No	PAX Edmonton
2-Apr-25	Yes	FRT General
2-Apr-25	Yes	FRT General
2-Apr-25	Yes	PAX Edmonton
3-Apr-25	Yes	PAX Edmonton
3-Apr-25	Yes	PAX Northern
3-Apr-25	Yes	FRT Grocery
4-Apr-25	Yes	PAX Yellowknife
7-Apr-25	Yes	PAX Yellowknife
10-Apr-25	Yes	PAX Edmonton
10-Apr-25	Yes	FRT Grocery
11-Apr-25	Yes	PAX Yellowknife
12-Apr-25	Yes	FRT General
13-Apr-25	Yes	PAX Yellowknife
14-Apr-25	Yes	PAX Yellowknife
17-Apr-25	Yes	PAX Edmonton
17-Apr-25	Yes	FRT Grocery
18-Apr-25	Yes	PAX Yellowknife
19-Apr-25	Yes	FRT General
22-Apr-25	Yes	PAX Edmonton
24-Apr-25	Yes	PAX Edmonton
24-Apr-25	Yes	PAX Northern

Date	Completed	Flight Type
24-Apr-25	Yes	FRT Grocery
25-Apr-25	Yes	PAX Yellowknife
30-Apr-25	Yes	FRT General
1-May-25	Yes	PAX Edmonton
1-May-25	Yes	FRT Grocery
2-May-25	Yes	PAX Yellowknife
8-May-25	Yes	PAX Edmonton
8-May-25	Yes	FRT Grocery
9-May-25	Yes	PAX Yellowknife
10-May-25	Yes	FRT General
12-May-25	Yes	PAX Yellowknife
13-May-25	Yes	PAX Edmonton
14-May-25	Yes	PAX Yellowknife
15-May-25	Yes	PAX Edmonton
15-May-25	Yes	PAX Northern
15-May-25	Yes	FRT Grocery
16-May-25	Yes	PAX Yellowknife
22-May-25	Yes	PAX Edmonton
22-May-25	Yes	FRT Grocery
23-May-25	Yes	PAX Yellowknife
27-May-25	Yes	PAX Yellowknife
29-May-25	Yes	PAX Edmonton
29-May-25	Yes	FRT Grocery
29-May-25	Yes	FRT General

Date	Completed	Flight Type
30-May-25	Yes	PAX Yellowknife
31-May-25	Yes	FRT General
3-Jun-25	No	PAX Edmonton
4-Jun-25	Yes	PAX Edmonton
5-Jun-25	Yes	PAX Edmonton
5-Jun-25	Yes	PAX Yellowknife
5-Jun-25	Yes	PAX Northern
5-Jun-25	Yes	PAX Northern
5-Jun-25	Yes	FRT Grocery
6-Jun-25	Yes	PAX Yellowknife
8-Jun-25	Yes	PAX Yellowknife
9-Jun-25	Yes	PAX Northern
9-Jun-25	Yes	PAX Northern
10-Jun-25	Yes	FRT General
10-Jun-25	Yes	PAX Northern
10-Jun-25	Yes	PAX Northern
12-Jun-25	Yes	PAX Edmonton
12-Jun-25	Yes	FRT Grocery
13-Jun-25	Yes	PAX Yellowknife
14-Jun-25	Yes	FRT General
17-Jun-25	Yes	FRT General
19-Jun-25	Yes	PAX Edmonton
19-Jun-25	Yes	FRT Grocery
20-Jun-25	Yes	PAX Yellowknife

Date	Completed	Flight Type
21-Jun-25	Yes	FRT General
24-Jun-25	Yes	PAX Edmonton
25-Jun-25	Yes	FRT General
26-Jun-25	Yes	PAX Edmonton
26-Jun-25	Yes	PAX Northern
26-Jun-25	Yes	PAX Northern
26-Jun-25	Yes	FRT Grocery
27-Jun-25	Yes	PAX Yellowknife
28-Jun-25	Yes	FRT General
1-Jul-25	Yes	PAX Yellowknife
3-Jul-25	Yes	PAX Edmonton
3-Jul-25	Yes	FRT Grocery
4-Jul-25	Yes	PAX Yellowknife
5-Jul-25	Yes	FRT General
5-Jul-25	Yes	FRT General
8-Jul-25	Yes	Other
10-Jul-25	Yes	PAX Edmonton
10-Jul-25	Yes	FRT Grocery
11-Jul-25	Yes	PAX Yellowknife
12-Jul-25	Yes	PAX Yellowknife
12-Jul-25	Yes	FRT General
15-Jul-25	Yes	PAX Edmonton
15-Jul-25	Yes	PAX Northern
17-Jul-25	Yes	PAX Edmonton

Date	Completed	Flight Type
17-Jul-25	Yes	PAX Northern
17-Jul-25	Yes	PAX Northern
17-Jul-25	Yes	FRT Grocery
18-Jul-25	Yes	PAX Yellowknife
18-Jul-25	Yes	Other
21-Jul-25	Yes	PAX Yellowknife
21-Jul-25	Yes	FRT General
23-Jul-25	Yes	FRT General
24-Jul-25	Yes	PAX Edmonton
24-Jul-25	Yes	FRT Grocery
25-Jul-25	Yes	PAX Yellowknife
26-Jul-25	Yes	FRT General
26-Jul-25	Yes	FRT General
28-Jul-25	Yes	Other
29-Jul-25	Yes	FRT General
30-Jul-25	Yes	Other
31-Jul-25	Yes	PAX Edmonton
31-Jul-25	Yes	FRT Grocery
31-Jul-25	Yes	Other
1-Aug-25	Yes	PAX Yellowknife
2-Aug-25	Yes	FRT General
4-Aug-25	Yes	Other
5-Aug-25	Yes	PAX Edmonton
6-Aug-25	Yes	Other

Date	Completed	Flight Type
6-Aug-25	Yes	Other
7-Aug-25	Yes	PAX Edmonton
7-Aug-25	Yes	PAX Northern
7-Aug-25	Yes	FRT Grocery
7-Aug-25	Yes	PAX Northern
8-Aug-25	Yes	PAX Yellowknife
9-Aug-25	Yes	Other
12-Aug-25	Yes	Other
14-Aug-25	Yes	PAX Edmonton
14-Aug-25	Yes	PAX Yellowknife
14-Aug-25	Yes	FRT Grocery
15-Aug-25	Yes	PAX Yellowknife
18-Aug-25	Yes	PAX Yellowknife
20-Aug-25	Yes	Other
21-Aug-25	Yes	PAX Edmonton
21-Aug-25	Yes	FRT Grocery
21-Aug-25	Yes	FRT General
22-Aug-25	Yes	PAX Yellowknife
22-Aug-25	Yes	FRT General
23-Aug-25	Yes	PAX Yellowknife
24-Aug-25	Yes	FRT General
24-Aug-25	Yes	FRT General
26-Aug-25	Yes	PAX Edmonton
28-Aug-25	Yes	PAX Edmonton

Date	Completed	Flight Type
28-Aug-25	Yes	PAX Northern
28-Aug-25	Yes	FRT Grocery
28-Aug-25	Yes	PAX Northern
29-Aug-25	Yes	PAX Yellowknife
2-Sep-25	Yes	Other
2-Sep-25	Yes	FRT General
3-Sep-25	Yes	Other
4-Sep-25	Yes	Other
4-Sep-25	Yes	PAX Edmonton
4-Sep-25	Yes	FRT Grocery
5-Sep-25	Yes	PAX Yellowknife
6-Sep-25	Yes	FRT General
7-Sep-25	Yes	PAX Yellowknife
11-Sep-25	Yes	PAX Edmonton
11-Sep-25	Yes	FRT Grocery
12-Sep-25	Yes	PAX Yellowknife
14-Sep-25	No	FRT General
15-Sep-25	Yes	FRT General
16-Sep-25	Yes	Other
16-Sep-25	Yes	PAX Edmonton
18-Sep-25	No	PAX Edmonton
18-Sep-25	Yes	PAX Edmonton
18-Sep-25	Yes	PAX Northern
18-Sep-25	Yes	FRT Grocery

Date	Completed	Flight Type
18-Sep-25	Yes	PAX Northern
19-Sep-25	Yes	PAX Yellowknife
22-Sep-25	Yes	PAX Yellowknife
22-Sep-25	Yes	Other
25-Sep-25	Yes	PAX Edmonton
25-Sep-25	Yes	FRT Grocery
26-Sep-25	Yes	PAX Yellowknife
26-Sep-25	Yes	FRT General
28-Sep-25	Yes	FRT General
2-Oct-25	Yes	PAX Edmonton
2-Oct-25	Yes	FRT Grocery
3-Oct-25	Yes	PAX Yellowknife
5-Oct-25	Yes	FRT General
7-Oct-25	Yes	PAX Edmonton
8-Oct-25	Yes	Other
8-Oct-25	Yes	PAX Edmonton
8-Oct-25	Yes	Other
9-Oct-25	No	PAX Edmonton
9-Oct-25	No	PAX Northern
9-Oct-25	No	FRT Grocery
9-Oct-25	No	PAX Northern
10-Oct-25	No	PAX Edmonton
10-Oct-25	Yes	PAX Yellowknife
10-Oct-25	Yes	PAX Northern

Date	Completed	Flight Type
10-Oct-25	Yes	PAX Yellowknife
10-Oct-25	Yes	PAX Northern
11-Oct-25	Yes	PAX Edmonton
11-Oct-25	Yes	FRT Grocery
13-Oct-25	Yes	PAX Yellowknife
13-Oct-25	Yes	FRT Grocery
16-Oct-25	Yes	PAX Edmonton
16-Oct-25	Yes	FRT Grocery
17-Oct-25	Yes	PAX Yellowknife
17-Oct-25	Yes	PAX Yellowknife
20-Oct-25	Yes	FRT General
20-Oct-25	Yes	FRT Grocery
21-Oct-25	Yes	PAX Edmonton
23-Oct-25	Yes	PAX Edmonton
23-Oct-25	Yes	FRT Grocery
24-Oct-25	Yes	PAX Yellowknife
28-Oct-25	Yes	FRT Grocery
28-Oct-25	No	PAX Edmonton
30-Oct-25	Yes	PAX Edmonton
30-Oct-25	Yes	PAX Edmonton
30-Oct-25	Yes	PAX Northern
30-Oct-25	Yes	FRT Grocery
30-Oct-25	Yes	PAX Northern
31-Oct-25	Yes	PAX Yellowknife

Date	Completed	Flight Type
31-Oct-25	Yes	PAX Yellowknife
4-Nov-25	Yes	PAX Edmonton
4-Nov-25	Yes	PAX Yellowknife
6-Nov-25	Yes	PAX Edmonton
6-Nov-25	Yes	FRT Grocery
7-Nov-25	Yes	PAX Yellowknife
8-Nov-25	Yes	PAX Yellowknife
9-Nov-25	Yes	FRT Grocery
10-Nov-25	Yes	PAX Yellowknife
11-Nov-25	Yes	PAX Edmonton
13-Nov-25	Yes	PAX Edmonton
13-Nov-25	Yes	FRT Grocery
14-Nov-25	Yes	PAX Yellowknife
16-Nov-25	Yes	FRT General
18-Nov-25	No	PAX Edmonton
19-Nov-25	Yes	PAX Edmonton
20-Nov-25	No	PAX Edmonton
20-Nov-25	No	PAX Northern
20-Nov-25	No	FRT Grocery
20-Nov-25	No	PAX Northern
21-Nov-25	Yes	PAX Yellowknife
21-Nov-25	Yes	PAX Northern
21-Nov-25	Yes	PAX Northern
21-Nov-25	Yes	PAX Edmonton

Date	Completed	Flight Type
22-Nov-25	Yes	FRT Grocery
23-Nov-25	Yes	PAX Yellowknife
25-Nov-25	Yes	PAX Edmonton
27-Nov-25	Yes	PAX Edmonton
27-Nov-25	Yes	FRT Grocery
28-Nov-25	Yes	PAX Yellowknife
29-Nov-25	Yes	FRT General
2-Dec-25	Yes	PAX Edmonton
3-Dec-25	Yes	PAX Northern
3-Dec-25	Yes	PAX Northern
4-Dec-25	Yes	PAX Edmonton
4-Dec-25	Yes	FRT Grocery
5-Dec-25	Yes	PAX Yellowknife
7-Dec-25	Yes	FRT General
9-Dec-25	Yes	PAX Edmonton
11-Dec-25	-	PAX Edmonton
11-Dec-25	-	PAX Northern
11-Dec-25	-	FRT Grocery
11-Dec-25	-	PAX Northern
12-Dec-25	-	PAX Yellowknife
13-Dec-25	-	Other
13-Dec-25	-	FRT General
13-Dec-25	-	FRT General
16-Dec-25	-	PAX Edmonton

<b>Date</b>	<b>Completed</b>	<b>Flight Type</b>
17-Dec-25	-	PAX Edmonton
18-Dec-25	-	PAX Edmonton
18-Dec-25	-	FRT Grocery
19-Dec-25	-	PAX Yellowknife
25-Dec-25	-	PAX Edmonton
26-Dec-25	-	PAX Yellowknife
27-Dec-25	-	FRT Grocery

# APPENDIX C      NOISE MONITORING STANDARD OPERATING PROCEDURE





**ERM**

# Hope Bay Project

## Quarry Blasting Noise Monitoring at Hope Bay

### STANDARD OPERATING PROCEDURE

March 2025

Version A.1

**Scope of Work:** This SOP provides guidance for noise monitoring measurement commitments during quarry blasts.

**Associated Documents:** Appendix A: Acoustical Concepts and Terminology  
Appendix B: Larson Davis Measurement Setup  
Appendix C: Noise Baseline Study Field Data Sheet

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## 1. BACKGROUND INFORMATION AND OBJECTIVE

Agnico Eagle Mines Limited (Agnico Eagle) has committed to stopping blasting when caribou are within 96 dB LPeak (noise level when blasting; ERM 2019). This threshold for halting blasting was chosen from a review of available literature, which indicates that ungulates may have a freezing or startle response when exposed to 96 dB LPeak overpressure (Manci et al. 1988; Weisenberger et al. 1996; Reimers and Colman 2006). ERM Consultants Canada Ltd. (ERM) completed previous noise modeling in 2019, suggesting that the 96 dB LPeak noise level is reached at 2.8 km from the blast (ERM 2019). Blasting is therefore stopped at the Hope Bay Mine (the Mine) when caribou are within 2.8 km of site. This value was deemed extremely conservative by noise modelers.

The objective of the 2024 noise monitoring is to measure noise levels at 2.8 km from the blasts to confirm previous modeling predictions, as per the Mine's Project's Commitment #41 from the Final Hearing, presented in Appendix B of the Nunavut Impact Review Board (NIRB) Project Certificate (009; NIRB 2018). The Project Commitment states:

- TMAC Resources Inc. (TMAC) will conduct noise measurements during quarry blasts at 2.8 km and 4 km to confirm predictions; and
- TMAC will confirm that the overpressure value of 96 dBZ Lpeak will not exceed at 2,800 m from the location of the blast.

This Noise Monitoring Standard Operating Procedure (SOP) has been developed to guide the stated noise monitoring measurement commitments during quarry blasts. The SOP describes procedures for Agnico Eagle staff to follow to accurately collect noise data, including:

- Required equipment for noise monitoring, the procedure to collect noise measurements in the field, metadata to record in the field, and the procedure for downloading data after monitoring; and
- How to proceed based on noise measurement results and reporting requirements.

Agnico Eagle will update this SOP as necessary in response to data collected in the field or scientific advances, or in response to feedback from stakeholders or regulators, including the Kitikmeot Inuit Association (KIA), Government of Nunavut (GN), or Canadian Wildlife Service (CWS). Acoustical Concepts and Terminology are described in Appendix A for further context.

## 2. SAFETY CONSIDERATIONS

Due safety considerations should be given to each of the following prior to starting work:

- Working at a remote site;
- Working with hand tools;
- Weather;
- Wildlife;
- Slips, trips, and falls; and
- Travel via helicopter or truck.

### 3. EQUIPMENT LIST

Specific equipment for noise monitoring is provided below:

- Larson Davis SoundAdvisor Model 831c;
- SoundAdvisor Portable Noise Monitoring System Model NMS044;
- Larson Davis calibrator (cal200);
- Portable weather station;
- Handheld GPS;
- Digital camera;
- Field datasheet; and
- Writing utensil.

### 4. PROCEDURE

#### 4.1 PERSONNEL REQUIREMENTS

Trained technicians will conduct noise monitoring site visits during blasts to ensure that equipment is properly managed and set up, and that proper documentation and field observations are made to identify audible noise sources. Staff responsibilities are as follows:

##### **Environmental Technician**

- Ensure noise monitoring equipment is fully charged and calibrated.
- Ensure safety conditions are considered and met before commencing field work.

##### **Environmental Coordinator**

- Provide SOP to field staff for review and assess level of competency of field staff to complete task.
- Provide UTM coordinates and monitoring distance from blast site.

#### 4.2 PREPARATION FOR THE FIELD

Prior to leaving the office to conduct noise monitoring, technicians must:

- Check the local weather forecast:
  - Avoid taking measurement in winds >5 m/s (12 mph) or rain (other than light showers). Excessive wind can introduce low frequency noise due to air movement over the windscreen and can result in non-typical noise due to wind in trees. Heavy rain can increase background noise levels. Even light rain can increase tire noise when monitoring near roadways.
- Adapt to site-specific wind conditions:
  - Recognizing that typical site conditions often involve wind speeds above 5 m/s (12 mph); noise measurements will still be conducted under these conditions.

- Given the restriction of one measurement per blast, data collection should be systematically planned. Start by collecting data at 2.8 km from the blast. If wind conditions remain consistently above 5 m/s, progressively reduce the distance of the monitoring site in subsequent blasts, moving 250 m closer each time until measurements are taken as close as 1 km from the blast site.
- The goal is to gather data across all specified distances (2.8 km to 1 km), allowing for a comprehensive understanding of blast noise under varying wind conditions. If wind conditions are below 5 m/s (12 mph), return to collecting data at 2.8 km from the blast.
- Note that if wind is below 12 mph, please monitor at 2.8 km from blast, since this is the distance in the commitment and there is an objective to measure at this distance when the noise is unobstructed/masked by the wind.
- Confirm site access:
  - Arrange for or confirm access to proposed monitoring sites if necessary. Noise data will be collected at sites 2.8 km away from the blast under low wind conditions. Factors to consider in site selection include:
    - Locations that could be affected by nearby construction noise or added noise from nearby personnel, creeks, or any objects able to be moved by wind. These locations should be avoided.
    - Sound reflections off buildings or other solid objects can significantly affect measured levels. Microphone should be at least 3 m away from large reflecting surfaces.
- Ensure equipment readiness:
  - Ensure batteries are charged for sound level meters, cameras, and GPS units.

### 4.3 DEPLOYMENT SETUP

#### **Step 1: Sound Level Meter Software Program**

Technicians are to follow the procedure outlined in Appendix B of this SOP to properly set up the instrument software program.

#### **Step 2: Monitoring Station Set-Up**

1. At the prescribed monitoring location (~2.8 km from blast location), set up the microphone using the yellow broom pole and the molded bracket on the side of the pelican case.
2. On the microphone cable, slide the two cable ties up to the microphone grip. Then, slide the microphone with cable ties over the yellow pole as pictured in Photo 1.
3. Using the two pieces of Velcro material on the microphone cable, secure the microphone cable to the yellow pole to prevent wind from rattling the cable on the yellow pole during monitoring.
4. Once the microphone and pole are secure, take photos from all four cardinal directions, depicting both the audio recording gear and the background.



Photo 1 Microphone affixed to vertical pole.

### Step 3: Calibration

1. Remove foam oval windscreen and unscrew bird spike to reveal the microphone.
2. Carefully slide calibration pack hole located on the bottom of the unit over the microphone tip, ensuring that when the unit is placed on a flat surface the entire tip of the microphone is covered.
3. With the unit powered on, select "TOOLS/CALIBRATION."
4. Select 94Db by using the cursor to highlight the dropdown menu.
5. On the calibration pack, press the black button—this starts the tone for the microphone to use as an audial reference tone.
6. On the 831C, use the cursor to highlight "CALIBRATION."
  - a. The unit will now enter calibration mode and run a diagnostic. Once calibration is complete, the 831C will prompt you to save—select yes.
  - b. Calibration procedure complete.

### Step 4: Field Data

Record all pertinent information using the appropriate field datasheet (Appendix C).

Technicians are to record the following data:

- Project name and field personnel;
- Date and time of setup and tear down;
- Date and time of the blast down to the second<sup>1</sup>;

<sup>1</sup>It is advised to check the time settings on the sound level meter and compare them to the device used to record blast times. If these devices are not in sync with one another, it should be noted in the field data sheet.

- Blast location and coordinates;
- UTM coordinates of sampling station;
- Ground cover type and terrain;
- Distance from all obstacles in the area (cannot be closer than 3 m to any surface, except the ground surface);
- Weather conditions at each site at the time of set up and tear down including:
  - Temperature (°C);
  - Relative humidity (%);
  - Cloud cover;
  - Wind speed (km/h or m/s) using handheld wind meter;
  - Wind direction (degrees from true North); and
  - Precipitation (mm).
- Instrument model;
- Calibration information;
- Notable observations including:
  - Audibility of blast; and
  - Additional noise sources (vehicle noise, birds, insects, wind, rain, etc.).
- Photos of the deployed monitoring equipment (showing every direction at each monitoring location).

NOTE—complete a field data sheet even if blasting activities have been suspended. Note pertinent details to keep records of all blasting attempts.

### **Step 5: Noise Monitoring Using the SoundAdvisor Model 831C**

At the bottom of the 831C screen, there are three menu items:

LIVE                      CLOSE                      LOG

1. Select "LIVE" to determine if the microphone is working—audible noise will register indicating the microphone is picking up ambient sounds. IF yes, proceed. IF not, check all connections in the Pelican case, and along the microphone.
2. If the microphone is working, use the arrow keys to select "LOG." Once in the LOG screen, the unit is ready to start recording.
3. Select the Record button 15 minutes prior to blasting. When the blast event is complete, wait another 15 minutes, then press the stop button to cease operation. Data is saved to the internal memory of the unit.
4. Once the meter has been started, try to minimize any noise. It is recommended to leave the area while monitoring is occurring. Attempt to be as quiet as possible while leaving or, if this is not practical, make a note of the time at which you departed from the site. If personnel stay in the area, all engines must be shut off and silence is required.

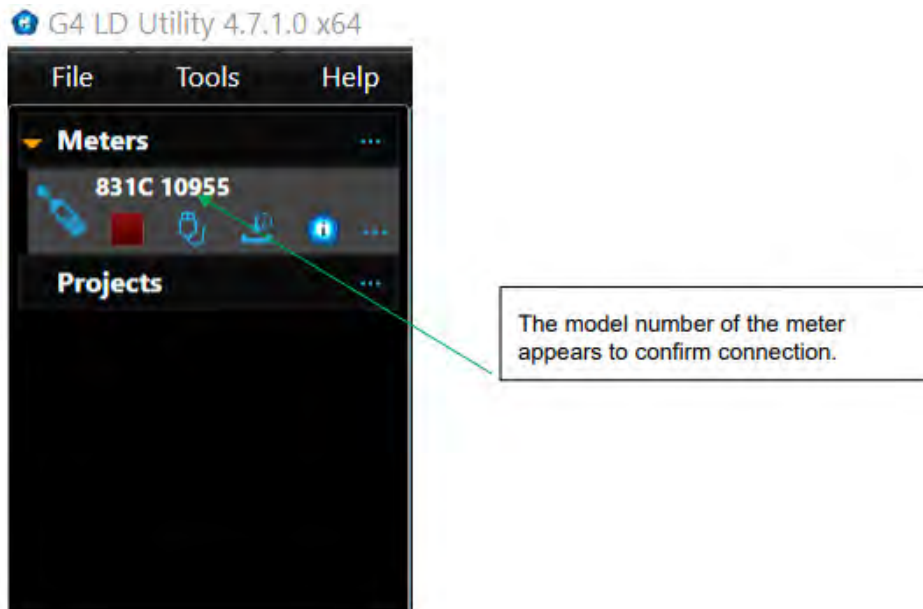
## 4.4 RETRIEVING DATA FROM SOUNDADVISOR MODEL 831C

Interfacing the noise meter requires installation of the G4 LD Utility software and a standard USB cable connecting to either a PC or laptop computer.

With software loaded, open G4 LD Utility application.

### Step 1: Connect Device

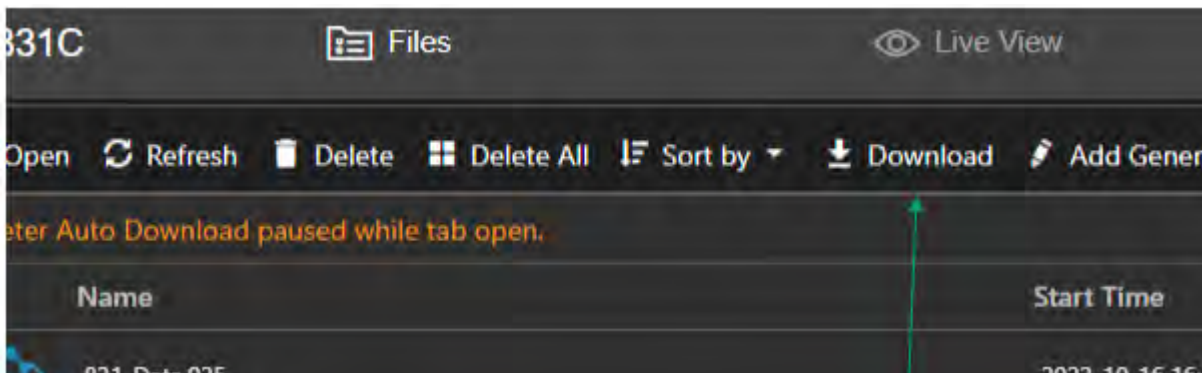
Connect the noise meter to the computer using a standard USB cable. The connected meter model number will appear in the top left corner of the screen.



### Step 2: Select Data Files

Select the data files from the sampling event from the list on the right side of the screen.

- Once the file(s) are highlighted, select the "Download" option to begin data transfer to the connected computer.
- Navigate to the "Downloads" folder on the PC to retrieve data.



## 5. REPORTING

Agnico Eagle will complete an annual noise monitoring report following data collection. The report is to include a summary of the methods and equipment used to gather noise data, summary tables indicating weather conditions, noise data, graphs of raw noise data, a map showing the location of the monitoring sites, and photos of each site.

Any noise sources that cause noise criteria to be exceeded will be identified in the report. The noise monitoring report will also confirm the distance from the blast where 96 dBZ Lpeak (noise threshold for caribou disturbance) is recorded. The location of the 96 dBZ Lpeak will provide input and potential for further mitigation measures for caribou in the continuously updated Wildlife Mitigation and Monitoring Plan (WMMP).

## 6. REFERENCES

- ERM. 2019. *Doris, Madrid, and Boston Projects: 2019 Wildlife Mitigation and Monitoring Plan*. Prepared for TMAC Resources Inc. by ERM Consultants Canada Ltd.: Vancouver, BC.
- Manci, K.M., D.N. Gladwin, R. Villella, and M.G. Cavendish. 1988. *Effects of Aircraft Noise and Sonic Booms on Domestic Animals and Wildlife: a Literature Synthesis*. NERC-88/29. 88pp: Fort Collins, Colorado.
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# APPENDIX A ACOUSTICAL CONCEPTS AND TERMINOLOGY

## **A.1 GLOSSARY – ACOUSTICAL CONCEPTS AND TERMINOLOGY**

### **A.1.1 What Is Noise And Vibration?**

#### *Noise*

Noise is often defined as a sound, especially one that is loud or unpleasant or that causes disturbance<sup>1</sup> or simply as unwanted sound, but technically, noise is the perception of a series of compressions and rarefactions above and below normal atmospheric pressure.

#### *Vibration*

Vibration refers to the oscillating movement of any object. In a sense noise is the movement of air particles and is essentially vibration, though in regards to an environmental assessment vibration is typically taken to refer to the oscillation of a solid object(s). The impact of noise on objects can lead to vibration of the object, or vibration can be experienced by direct transmission through the ground, this is known as ground-borne vibration.

Essentially, noise can be described as what a person hears, and vibration as what they feel.

### **A.1.2 What Factors Contribute To Environmental Noise?**

The noise from an activity, like construction works, at any location can be affected by a number of factors, the most significant being:

- How loud the activity is?
- How far away the activity is from the receiver?
- What type of ground is between the activity and the receiver location e.g. concrete, grass, water or sand?
- How the ground topography varies between the activity and the receiver? For example, is it flat, hilly, mountainous? Blocking the line of sight to a noise source will generally reduce the level of noise.
- Any other obstacles that block the line of sight between the source to receiver e.g. buildings or purpose built noise walls.

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### **A.1.3** *How to Measure and Describe Noise?*

Noise is measured using a specially designed 'sound level' meter which must meet internationally recognised performance standards. Audible sound pressure levels vary across a range of  $10^7$  Pascals (Pa), from the threshold of hearing at  $20\mu\text{Pa}$  to the threshold of pain at  $200\text{Pa}$ . Scientists have defined a statistically described logarithmic scale called Decibels (dB) to more manageably describe noise.

To demonstrate how this scale works, the following points give an indication of how the noise levels and differences are perceived by an average person:

- 0 dB - represents the threshold of human hearing (for a young person with ears in good condition).
- 50 dB - represents average conversation.
- 70 dB - represents average street noise, local traffic etc.
- 90 dB - represents the noise inside an industrial premises or factory.
- 140 dB - represents the threshold of pain - the point at which permanent hearing damage may occur.

### **A.1.4** *Human Response to Changes in Noise Levels*

The following concepts offer qualitative guidance in respect of the average response to changes in noise levels:

- Differences in noise levels of less than approximately 2 dB are generally imperceptible in practice, an increase of 2 dB is hardly perceivable.
- Differences in noise levels of around 5 dB are considered to be significant.
- Differences in noise levels of around 10 dB are generally perceived to be a doubling (or halving) of the perceived loudness of the noise. An increase of 10 dB is perceived as twice as loud. Therefore an increase of 20 dB is four times as loud and an increase of 30 dB is eight times as loud etc.
- The addition of two identical noise levels will increase the dB level by about 3 dBA. For example, if one car is idling at 40 dB and then another identical car starts idling next to it, the total dB level will be about 43 dB.
- The addition of a second noise level of similar character which is at least 8 dB lower than the existing noise level will not add significantly to the overall dB level.
- A doubling of the distance between a noise source and a receiver results approximately in a 3 dB decrease for a line source (for example, vehicles

travelling on a road) and a 6 dB decrease for a point source (for example, the idling car discussed above).

- A doubling of traffic volume for a line source results approximately in a 3 dB increase in noise, halving the traffic volume for a line source results approximately in a 3 dB decrease in noise.

#### *A.1.5 Terms to Describe the Perception of Noise*

The following terms offer quantitative and qualitative guidance in respect of the audibility of a noise source:

- **Inaudible / Not Audible** - the noise source and/or event could not be heard by the operator, masked by extraneous noise sources not associated with the source. If a noise source is 'inaudible' its noise level may be quantified as being less than the measured LA90 background noise level, potentially by 10 dB or greater.
- **Barely Audible** - the noise source and/or event are difficult to define by the operator, typically masked by extraneous noise sources not associated with the source. If a source is 'barely audible' its noise level may be quantified as being 5 - 7 dB below the measured LA90 or LAeq noise level, depending on the nature of the source e.g. constant or intermittent.
- **Just Audible** - the noise source and/or event may be defined by the operator. However there are a number of extraneous noise sources contributing to the measurement. The noise level should be quantified based on instantaneous noise level contributions, noted by the operator.
- **Audible** - the noise source and/or event may be easily defined by the operator. There may be a number of extraneous noise sources contributing to the measurement. The noise level should be quantified based on instantaneous noise level contributions, noted by the operator.
- **Dominant** - the noise source and/or event are noted by the operator to be significantly 'louder' than all other noise sources. The noise level should be quantified based on instantaneous noise level contributions, noted by the operator.

The following terms offer qualitative guidance in respect of acoustic terms used to describe the frequency of occurrence of a noise source during an operator attended environmental noise measurements:

- **Constant** - this indicates that the operator has noted the noise source(s) and/or event to be constantly audible for the duration of the noise measurement e.g. an air-conditioner that runs constantly during the measurement.
- **Intermittent** - this indicates that the operator has noted the noise source(s) and/or event to be audible, stopping and starting intervals for the duration of the noise measurement e.g. car pass-bys.

- **Infrequent** – this indicates that the operator has noted the noise source(s) and/or event to be constantly audible, however; not occurring regularly or at intervals for the duration of the noise measurement e.g. a small number of aircraft are noted during the measurement.

#### **A.1.6**      *How to Calculate or Model Noise Levels?*

There are two recognised methods which are commonly adopted to determine the noise at particular location from a proposed activity. The first is to undertake noise measurements whilst the activity is in progress and measure the noise, the second is to calculate the noise based on known noise emission data for the activity in question.

The second option is preferred as the first option is largely impractical in terms of cost and time constraints, notwithstanding the meteorological factors that may also influence its quantification. Furthermore, it is also generally considered unacceptable to create an environmental impact simply to measure it. In addition, the most effective mitigation measures are determined and implemented during the design phase and often cannot be readily applied during or after the implementation phase of a project.

Because a number of factors can affect how ‘loud’ a noise is at a certain location, the calculations can be very complex. The influence of other ambient sources and the contribution from a particular source in question can be difficult to ascertain. To avoid these issues, and to quantify the direct noise contribution from a source/site in question, the noise level is often calculated using noise modelling software packages. The noise emission data used in may be obtained from the manufacturer or from ERM’s database of measured noise emissions.

#### **A.1.7**      *Acoustic Terminology & Statistical Noise Descriptors*

Environmental noise levels such as noise generated by industry, construction and road traffic are commonly expressed in dBA. The A-weighting scale follows the average human hearing response and enables comparison of the intensity of noise with different frequency characteristics. Time varying noise sources are often described in terms of statistical noise descriptors. The following descriptors are commonly used when assessing noise and are referred to throughout this acoustic assessment:

- **Decibel (dB is the adopted abbreviation for the decibel)** – The unit used to describe sound levels and noise exposure. It is equivalent to 10 times the logarithm (to base 10) of the ratio of a given sound pressure to a reference pressure.
- **dBA** - unit used to measure ‘A-weighted’ sound pressure levels. A-weighting is an adjustment made to sound-level measurement to approximate the response of the human ear.

- **dBC** - unit used to measure 'C-weighted' sound pressure levels. C-weighting is an adjustment made to sound-level measurements which takes account of low-frequency components of noise within the audibility range of humans.
- **dBZ or dBL** - unit used to measure 'Z-weighted' sound pressure levels with no weighting applied, linear.
- **Hertz (Hz)** - the measure of frequency of sound wave oscillations per second. 1 oscillation per second equals 1 hertz.
- **Octave** - a division of the frequency range into bands, the upper frequency limit.
- **1/3 Octave** - single octave bands divided into three parts.
- **Leq** - this level represents the equivalent or average noise energy during a measurement period. The  $L_{eq, 15min}$  noise descriptor simply refers to the  $L_{eq}$  noise level calculated over a 15 minute period. Indeed, any of the below noise descriptors may be defined in this way, with an accompanying time period (e.g.  $L_{10, 15\text{ minute}}$ ) as required.
- **Lmax** - the absolute maximum noise level in a noise sample.
- **LN** - the percentile sound pressure level exceeded for N% of the measurement period calculated by statistical analysis.
- **L10** - the noise level exceeded for 10 per cent of the time and is approximately the average of the maximum noise levels.
- **L90** - the noise level exceeded for 90 per cent of the time and is approximately the average of the minimum noise levels. The  $L_{90}$  level is often referred to as the "background" noise level and is commonly used as a basis for determining noise criteria for assessment purposes.
- **Sound Power Level (Lw)** - this is a measure of the total power radiated by a source. The Sound Power of a source is a fundamental property of the source and is independent of the surrounding environment.
- **Sound Pressure Level (Lp)** - the level of sound pressure; as measured at a distance by a standard sound level meter with a microphone. This differs from  $L_w$  in that this is the received sound as opposed to the sound 'intensity' at the source.
- **Background noise** - the underlying level of noise present in the ambient noise, excluding the noise source under investigation, when extraneous noise is removed. This is described using the  $L_{A90}$  descriptor.
- **Ambient noise** - the all-encompassing noise associated within a given environment. It is the composite of sounds from many sources, both near and far. This is described using the  $L_{Aeq}$  descriptor.

- **Cognitive noise** – noise in which the source is recognised as being annoying.
- **Masking** – the phenomenon of one sound interfering with the perception of another sound. For example, the interference of traffic noise with use of a public telephone on a busy street.

*Industrial Noise Policy (INP) Terminology*

The following terminology is from the NSW Environment Protection Authority – *NSW Environmental Noise Management – Industrial Noise Policy (INP)*, January 2000 and relevant application notes:

- **Assessment Background Level (ABL)** - is defined in the INP as a single figure background level representing each assessment period (day, evening and night). Its determination is by the tenth percentile method (of the measured LA90 statistical noise levels) described in Appendix B on the INP.
- **Rating Background Level (RBL)** - is defined in the INP as the overall single figure background level representing each assessment period (day, evening and night) over the whole monitoring period (as opposed to over each 24 hour period used for the ABL). This is the level used for assessment purposes. It is defined as the median value of:
  - All the day assessment background levels over the monitoring period for the day;
  - All the evening assessment background levels over the monitoring period for the evening; or
  - All the night assessment background levels over the monitoring period for the night.
- **Extraneous noise** – noise resulting from activities that are not typical of the area. Atypical INP activities may include construction, and traffic generated by holiday periods and by special events such as concerts or sporting events. Normal daily traffic is not considered to be extraneous.
- **Most affected location(s)** – locations that experience (or will experience) the greatest noise impact from the noise source under consideration. In determining these locations, one needs to consider existing background levels, exact noise source location(s), distance from source (or proposed source) to receiver, and any shielding between source and receiver.
- **Noise criteria** – the general set of non-mandatory noise level targets for protecting against intrusive noise (for example, background noise plus 5 dB) and loss of amenity (for example, noise levels for various land uses).
- **Noise limits** – enforceable noise levels that appear in conditions on consents and licences. The noise limits are based on achievable noise levels which the proponent has predicted can be met during the environmental

assessment. Exceedance of the noise limits can result in the requirement for either the development of noise management plans or legal action.

- **Project Specific Noise Levels** – target noise levels for a particular noise generating facility. They are based on the most stringent of the intrusive criteria or amenity criteria. Which of the two criteria is the most stringent is determined by measuring the level and nature of existing noise in the area surrounding the actual or propose noise generating facility.
- **Compliance** – the process of checking that source noise levels meet with the noise limits in a statutory context.
- **Non-compliance** – development is deemed to be in non-compliance with its noise consent/ licence conditions if the monitored noise levels exceed its statutory noise limit by more than 2 dB.
- **Feasible and Reasonable measures** – feasibility relates to engineering considerations and what is practical to build. reasonableness relates to the application of judgement in arriving at a decision, taking into account the following factors:
  - Noise mitigation benefits (amount of noise reduction provided, number of people protected);
  - Cost of mitigation (cost of mitigation versus benefit provided);
  - Community views (aesthetic impacts and community wishes); and
  - Noise levels for affected land uses (existing and future levels, and changes in noise levels).
- **Meteorological Conditions** – wind and temperature inversion conditions.
- **Temperature Inversion** – an atmospheric condition in which temperature increases with height above the ground.
- **Adverse Weather** – weather effects that enhance noise (that is, wind and temperature inversions) that occur at a site for a significant period of time (that is, wind occurring more than 30% of the time in any assessment period in any season and/or temperature inversions occurring more than 30% of the nights in winter).

## 1.1.2 Operator Attended Noise Measurements

Table A.1 below presents typical abbreviations that are used to describe common noise sources that may be noted during environmental noise measurements.

**Table A.1 General Field Note Abbreviations**

Abbreviation	Noise Source
ANML (B-I-D-L)	Animals (birds - insects - domestic - livestock)
ACF T	Aircraft
CPBY	Car pass by
DLCN	Dialogue, conversations e.g. with passers-by
DTRF	Distant traffic
LTRF	Local traffic
OIND	Other industry/industrial sites
OPTR	Operator
RDOC	Residential/occupants
RHUM	Rural harm
SHUM	Suburban harm
UHUM	Urban harm
WBGV	Windblown vegetation

During operator attended noise measurements, the sound level meter will present the instantaneous noise level and record acoustical and statistical parameters. In certain acoustical environments, where a range of noise sources are audible and detectable, the sound level meter cannot measure a direct source noise level and it is often necessary to account for the contribution and duration of the sources.

**Noted Percentile Contribution** - Table A.2 presents noise level deductions that are typically applied based on the percentage contribution of a noise source(s). **Noted Time Contribution** - Table A.3 presents noise level deductions that may be applied based on the percentage of time that a noise source(s) is audible during a 15 minute measurement. Where the noise emission from a source is clearly detectable and the contribution can be measured, these deductions are not necessary.

**Table A.2 Noise Level Deductions - Noted Percentile Contribution**

Percentage Contribution	Noise Level Adjustment, dBA
5%	-13.0
10%	-10.0
15%	-8.2
20%	-7.0
25%	-6.0
30%	-5.2
35%	-4.6
40%	-4.0
45%	-3.5
50%	-3.0

Percentage Contribution	Noise Level Adjustment, dBA
55%	-2.6
60%	-2.2
65%	-1.9
70%	-1.5
75%	-1.2
80%	-1.0
85%	-0.7
90%	-0.5
95%	-0.2
100%	0.0

- EXAMPLE:** the measured LAeq, 15 minute noise level is 49 dB and the site contribution was observed to be 10% of this level (extraneous noise sources were noted to dominate the measurement), therefore the LAeq, 15 minute noise level deduction is 10 dB, with a resultant noise level contribution of approximately 39 dB.

**Table A.3** *Noise Level Deductions – Noted Time Contribution*

Event Duration (minutes)	Noise Level Adjustment, dBA
1	-11.8
2	-8.8
3	-7.0
4	-5.7
5	-4.8
6	-4.0
7	-3.3
8	-2.7
9	-2.2
10	-1.8
11	-1.3
12	-1.0
13	-0.6
14	-0.3
15	0.0

- EXAMPLE:** the measured LAeq, 15 minute noise level contribution of an excavator was noted to be 56 dB, however it was only audible for 6 minutes during the 15 minute measurement period, therefore the LAeq, 15 minute noise level deduction is 4 dB, with a resultant noise level contribution of approximately 52 dB.

## **A.1** *VIBRATION - GLOSSARY OF TERMS, DEFINITIONS AND METHODOLOGY*

### **A.1.1** *How to Measure and Control Vibration*

Vibration refers to the oscillating movement of any object. In relation to construction projects, ground-borne vibration is the most likely outcome of works and potentially has three (3) effects on vibration sensitive receivers, these are:

- Ground-borne vibration that may cause annoyance.

- Ground-borne vibration that may have adverse effect on a structure e.g. a building.
- Regenerated noise due to ground-borne vibration.

Each of these potential effects can be assessed in accordance with the relevant standard. Perceptible levels of vibration often create concern for the surrounding community at levels well below structural damage guideline values; this issue needs to be managed as part of the vibration monitoring program.

Vibration is typically measured using specific devices that record the velocity or acceleration at a designated receiver location – usually being the closest premises to works. Modern vibration monitoring devices will typically capture amplitude data for the three (3) orthogonal axes being, the transverse, longitudinal and vertical and also the frequency at which the measured vibration event occurs.

Monitoring of this level of detail enables analysis of significant vibration events to determine compliance with relevant guidelines such as the NSW Department of Environment and Conservation – NSW Environmental Noise Management – *Assessing Vibration: a Technical Guideline* (the NSW vibration guideline), February 2006 and the German Institute for Standardisation – DIN 4150 (1999-02) Part 3 (DIN4150-3) – *Structural Vibration - Effects of Vibration on Structures*.

Vibration propagates in a different manner to noise and can be difficult to control depending on the frequency of the source in question, although identifying the strategy best suited to controlling vibration follows a similar approach to that of noise. This includes elimination, control at the source, control along the propagation path and control at the receiver and/or a combination of these, such as no work/respite periods.

### A.1.2 *Vibration Descriptors*

The following terms are often used to describe measured vibration levels.

- **Parameter** – an attribute with a value - for example, weighting.
- **Particle Velocity** – the instantaneous value of the distance travelled by a particle per unit time in a medium that is displaced from its equilibrium state by the passage of a sound or vibration wave.
- **Peak Component Particle Velocity (PCPV)** – is the highest (maximum or peak) particle velocity which is recorded during a particular vibration event over the three (3) axes. PCPV is measured in the unit, mm/s.
- **Phase** – the relative position of a sound wave to some reference point, the phase of a wave is given in radians, degrees, or fractions of a wavelength.
- **Acceleration** – the change in velocity over time. Acceleration is dependent on the velocity and the frequency of the vibration event (velocity is a

vector), as such acceleration changes in two ways - magnitude and/or direction. Acceleration is measured in the unit, m/s<sup>2</sup>.

- **Perceptible** - vibration levels that a receiver of building occupant may 'feel'. 0.2mm/s is typically considered to be the human threshold for perception of vibration.
- **Geophone or accelerometer** - the transducer/device typically used to measure vibration.
- **Damage** - is defined in DIN 4150-3 to include minor non-structural effects such as cosmetic damage or superficial cracking in paint or cement render, the enlargement of cracks already present, and the separation of partitions or intermediate walls from load bearing walls.
- **Vibration Dose Value (VDV)** - a concept outlined in the NSW vibration guideline, which is a calculative approach to assessing the impact of intermittent vibration or extended periods of impulsive vibration. VDV require the measurement of the overall weighted RMS (Root Mean Square) acceleration levels over the frequency range 1Hz to 80Hz. To calculate VDV the following formula (refer Section 2.4.1 of the guideline) is used:

$$VDV = \left[ \int_0^T a^4(t) dt \right]^{0.25}$$

Where VDV is the vibration dose value in m/s<sup>1.75</sup>,  $a(t)$  is the frequency-weighted RMS of acceleration in m/s<sup>2</sup> and  $T$  is the total period of the day (in seconds) during which vibration may occur.

- **MIC** - Maximum Instantaneous Charge or explosive charge mass (kg) detonated per delay (any 8ms interval).
- **SD (m)** - The scaled distance for air-blast and ground vibration from the charge to the receiver.

# APPENDIX B      LARSON DAVIS MEASUREMENT SETUP

## APPENDIX B: LARSON DAVIS MEASUREMENT SETUP

### Equipment

#### Noise Meter

Create Measurement Setup (Module 6 in Manual):

- Tools > Setup Manager
- Note the name of the setup file you are editing or make a new setup file. Press **Enter** to name the file and then **Save As > Ok**.
- Use left and right keys to scroll through setup pages.
  - General Tab: file name and description (description is optional)
  - SLM Tab:
    - Frequency Rating: **Z**
    - Detector: **Fast**
    - Peak Weighting: **Z**
    - Integration Method: **Linear**
  - OBA Tab:
    - Bandwidth: **1/1,1/3**
    - Freq. Wt.: **Z**
    - Max. Spec.: **Bin Max.**
    - Spectral Ln.: **On**
  - Ln. Percentiles Tab: make sure there are **10%, 50%, and 90%** percentiles
  - Control Tab:
    - Select Manual Run/Stop or Timed Stop; enable Measurement History checkbox
  - Select preferred exceedance triggers:
    - SPL Trigger: leave default
    - Peak Trigger:
      - Peak 1—96 dB
      - Peak 2—100 dB
      - Peak 3—15 dB
  - Day/Night Settings Tab:
    - Day: **7:00**
    - Evening: **22:00; 0 dB penalty**
    - Night: **22:00; 0dB penalty**
  - Do not need weather data
  - **Close > Yes** to save setup > **Enter** on the name of setup > **Set to Active > Enter**



Set Up Measurement Time History (Module 15 in Manual):

- Tools > Setup Manager > Highlight Setup
  - Time History Tab: **check Enable Time History**

- Period: **100 ms**
- Enable the following Time History options: **Leq, Lpeak, LFmax, and LFmin**
- **Check A, C, and Z weight for Leq, LSmax, LFmax, LSmin, LFmin, 1/3 OBA bandwidth (Leq), and Ln stats**

Set Up Event History (Module 17.1 in Manual):

- Need to verify firmware option 831C-ELA has been installed and enabled on your meter
- Tools > Setup Manager > Highlight the name your Setup
  - Event Triggers Tab:
    - **Add 1/3 octave band as event trigger**
    - **If needed, edit the trigger source and trigger level values**
  - Event History:
    - Minimum Duration: **1 second**
    - Continuation Period: **do not select one**
    - Enable Event Time History:
      - Period: **2 seconds**
      - Spectral Mode: **On**
      - Pre/Post Event: **10 and 10**
      - Event Samples: **1000**
    - Trigger Method: **Dynamic**
    - Spectral Tab:
      - **Select On from Spectral Mode dropdown**
- Close and save setup, enter the Setup Manager, highlight the name of the Event History setup, and set it as the Active setup file

# APPENDIX C NOISE BASELINE STUDY FIELD DATA SHEET

Noise Baseline Study Field Data Sheet

Samplers: KW / RS

Project Name: HOPE BAY

Blast ID (ie: 24-13-DD/MM/YYYY) ~~24-10-2024~~ 24-20-27/07/2024

Blast Location: Quarry D

Blast Coordinates: UTM Coordinates :  
13W 0432946 E 7551638 N

Ground Cover (e.g. soil/vegetation type):

Dwarf shrub, sedge, grass

Start Date/Time

27-07-24 16:51:30

Terrain (e.g. flat, hills, mountains):

Rocky outcrop, rolling

Finish Date/Time

27-07-24 17:03

Weather:

Temperature (°C): 6.8 Cloud Cover (%): 100%

Precipitation:  Heavy  Moderate  Mild  None

Snow  Rain  Other \_\_\_\_\_

Wind: Speed  Strong  Moderate  Light  None Direction E

23.5 km/h

Instrument:

Type Sound Advisor 831C Serial #  
X X

Calibration:  Before  After  
Method

Weighting (i.e. A) X Other Settings X

Response (i.e. fast/slow) X X

Observations: \*\*Include directions and estimated distances to the instrument in this section\*\*

Audible noise observed

Talking, paper, rocks, vehicl, radio chatter

wind, foot steps, flags

Potential noise sources

Vehicles, wind, footsteps, talking  
radio, animals (birds), helicopter, flags

Obstacles (e.g. trees, buildings)

Rocky out crops, hills

Notes:

-strong wind gusts while recording

BLAST DATE AND TIME: 27-07-24 17:01:05

WILDLIFE SURVEY COMPLETED?  YES  NO

NOISE MONITORING UTM 13W 0432317 E 7554312 N

\*\*Please be sure to take a few photos of the instrument and the surrounding area (i.e. one in each direction) and put them in the project folder with appropriate labels upon return to the office!\*\*

# APPENDIX D WILDLIFE CAMERA LOCATIONS AND CAMERA EFFORT BY MONTH, 2016 TO 2025



APPENDIX D: WILDLIFE CAMERA LOCATIONS AND CAMERA EFFORT BY MONTH, 2016 TO 2025

Camera ID	Latitude	Longitude	Treatment	Treatment 2	2024-09	2024-10	2024-11	2024-12	2025-01	2025-02	2025-03	2025-04	2025-05	2025-06	2025-07	2025-08	Total Active Days	Avg. Camera Days per Month	Min Active Days	Max Active Days
1	68.134678	-106.613442	Treatment	NA	25	21	30	31	31	28	31	30	21	0	31	19	298	24.8	0	31
10	68.1789	-106.711777	ZOI	NA	29	31	30	31	31	28	31	9	0	0	24	31	275	22.9	0	31
11	68.161129	-106.582458	Treatment	NA	22	31	30	31	31	28	31	30	23	0	24	31	312	26.0	0	31
12	68.056534	-106.722614	ZOI	NA	0	0	0	0	0	0	0	0	0	0	26	27	53	4.4	0	27
13	68.05386	-106.650655	Treatment	NA	30	31	30	31	31	28	31	30	22	0	26	31	321	26.8	0	31
14	68.143196	-106.417896	ZOI	NA	30	31	30	31	31	28	31	20	0	0	27	31	290	24.2	0	31
15	68.145629	-106.587748	Treatment	NA	29	31	30	31	31	28	22	30	31	9	24	31	327	27.3	9	31
16	68.181204	-106.319204	Control	NA	30	31	30	31	31	28	31	30	5	0	27	31	305	25.4	0	31
17	68.172736	-106.629013	Treatment	NA	27	30	29	31	31	27	30	30	28	28	27	0	318	26.5	0	31
18	68.174021	-106.617773	Treatment	Waste Management Facility	12	0	0	0	0	0	0	0	0	0	21	31	64	5.3	0	31
19	68.172356	-106.604446	Treatment	NA	29	31	30	31	31	28	21	0	0	0	24	31	256	21.3	0	31
2	68.09143	-106.623916	Facilities	Road Crossing Ramp	30	31	9	0	0	0	0	0	0	0	31	31	132	11.0	0	31
20	68.11781	-106.61909	Facilities	Culvert	25	31	30	31	13	0	0	0	0	0	30	15	175	14.6	0	31
22	68.171981	-106.56204	Treatment	ERM Fish Fence	12	0	0	0	0	0	0	0	0	0	24	31	67	5.6	0	31
23	68.166341	-106.423228	ZOI	NA	30	31	30	31	31	28	31	30	16	0	27	31	316	26.3	0	31
24	68.028184	-106.606826	ZOI/Ladder	NA	30	24	30	31	31	28	31	18	0	0	0	0	223	18.6	0	31
25	68.161689	-106.464985	ZOI	NA	30	31	30	31	31	28	31	30	31	9	18	31	331	27.6	9	31
26	68.143026	-106.456044	ZOI	NA	30	31	11	0	0	0	0	0	0	0	27	31	130	10.8	0	31
27	68.11806	-106.61438	Facilities	Culvert	25	31	30	31	31	28	31	30	31	30	31	31	360	30.0	25	31
28	68.103624	-106.501285	Treatment	NA	29	31	30	31	31	28	31	30	8	0	24	16	289	24.1	0	31
29	68.10952	-106.257934	Control	NA	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0	0	0
3	68.210757	-106.351207	Control	NA	23	10	0	0	0	0	0	0	0	0	27	31	91	7.6	0	31
30	68.069304	-106.525236	ZOI	NA	29	18	30	31	31	3	0	0	0	0	20	0	162	13.5	0	31
31	68.132641	-106.268101	Control	NA	30	31	30	31	31	28	31	30	7	0	27	31	307	25.6	0	31
32	68.100265	-106.648595	Treatment	NA	29	31	30	31	31	28	31	30	31	30	31	31	364	30.3	28	31
33	68.20337	-106.294314	Control	NA	28	31	30	31	31	28	31	30	31	15	5	0	291	24.3	0	31
34	68.012655	-106.533209	ZOI/Ladder	NA	30	31	30	31	31	28	0	0	0	0	24	31	236	19.7	0	31
35	68.11625	-106.617105	Facilities	Road Crossing Ramp	25	31	18	0	0	0	0	0	0	0	31	31	136	11.3	0	31
37	68.268138	-106.261722	Control	NA	30	31	30	28	31	28	31	30	31	29	6	2	307	25.6	2	31
39	68.092547	-106.444592	ZOI	NA	26	31	30	31	31	28	31	30	3	0	0	0	241	20.1	0	31
4	68.185059	-106.329676	Control	NA	30	31	30	31	31	28	31	24	0	0	27	31	294	24.5	0	31
40	68.143541	-106.220265	Control	NA	30	31	30	31	31	28	31	30	31	25	27	31	356	29.7	25	31
41	68.189685	-106.523054	ZOI	NA	30	31	30	31	31	28	31	30	31	30	12	3	318	26.5	3	31
42	68.160056	-106.617417	Treatment	NA	26	30	27	26	30	27	26	30	31	30	31	31	345	28.8	26	31
43	68.166625	-106.265302	Control	NA	30	31	30	31	31	28	30	17	0	0	27	31	286	23.8	0	31
44	68.180703	-106.422262	ZOI	NA	30	31	30	31	31	28	31	30	31	23	27	31	354	29.5	23	31
45	68.255473	-106.362751	Control	NA	25	25	30	31	31	28	31	30	31	30	30	29	351	29.3	25	31
46	68.152933	-106.374951	ZOI	NA	30	31	30	31	31	28	31	30	16	0	27	31	316	26.3	0	31
47	68.066067	-106.38019	ZOI	NA	21	30	29	31	22	23	31	11	15	27	28	31	299	24.9	11	31
48	68.101228	-106.346009	ZOI	NA	29	31	30	31	31	28	31	18	0	0	27	31	287	23.9	0	31
49	68.194748	-106.326304	Control	NA	30	31	30	30	31	26	31	30	28	30	26	19	342	28.5	19	31
5	68.201841	-106.202973	Control	NA	30	30	30	31	31	28	31	30	31	24	0	0	296	24.7	0	31
50	68.089075	-106.569514	Treatment	NA	29	31	30	31	31	28	31	30	29	15	24	31	340	28.3	15	31
51	68.110462	-106.550704	Facilities	TIA	0	0	0	0	0	0	0	0	0	0	24	26	50	4.2	0	26
53	68.137897	-106.655407	Treatment	NA	29	31	30	31	30	0	0	0	0	0	24	31	206	17.2	0	31
55	68.09592	-106.722746	ZOI	NA	30	31	30	31	31	28	31	30	19	0	26	31	318	26.5	0	31
56	68.030222	-106.93206	Control	NA	2	0	0	0	0	0	0	0	0	0	0	2	4	0.3	0	2
57	68.075592	-106.743914	ZOI	NA	30	31	30	31	31	28	31	30	31	1	26	2	302	25.2	1	31
58	68.010363	-106.873878	Control	NA	30	31	30	31	31	28	31	30	29	0	26	31	328	27.3	0	31
59	68.182906	-106.653926	Treatment	NA	29	31	30	31	31	28	31	30	31	0	24	31	327	27.3	0	31
6	68.215534	-106.248634	Control	NA	30	22	30	31	31	28	31	30	9	0	27	31	300	25.0	0	31
60	68.187869	-106.592262	Treatment	NA	30	31	30	31	31	28	31	30	31	0	19	31	323	26.9	0	31
7	68.156186	-106.276602	Control	NA	30	31	30	31	31	28	31	30	31	24	18	22	337	28.1	18	31
8	68.21368	-106.292892	Control	NA	27	0	0	0	0	0	0	0	0	0	0	0	27	2.3	0	27
9	68.06709	-106.879298	Control	NA	30	22	30	31	31	28	31	30	31	30	6	3	303	25.3	3	31

# APPENDIX E      CAMERA SUMMARY OF WILDLIFE EVENTS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025



APPENDIX E: CAMERA SUMMARY OF WILDLIFE EVENTS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera Number	Caribou Total	Muskox Total	Grizzly Bear Total	Wolverine Total	Other Species Total
1	12	0	0	0	34
2	3	0	0	0	1
3	6	0	0	0	0
4	2	0	1	0	2
5	0	0	0	0	6
6	0	0	0	0	25
7	3	0	0	0	4
8	2	0	1	0	1
9	1	0	7	0	20
10	6	0	2	0	10
11	7	0	0	0	7
12	2	0	4	0	21
13	3	0	2	1	7
14	3	0	4	1	119
15	6	0	5	0	14
16	3	0	2	0	12
17	3	0	0	0	2
18	2	0	0	0	1
19	2	0	1	0	2
20	1	0	0	0	0
22	2	0	16	0	98
23	8	0	4	0	24
24	0	0	0	0	5
25	2	0	1	0	3
26	8	0	2	0	14
27	3	0	0	0	2
28	1	0	5	0	32
29	0	0	0	0	0
30	2	0	1	0	0
31	0	0	0	1	6
32	11	0	3	0	24
33	2	0	2	0	7
34	8	0	0	0	8
35	6	0	0	0	3
37	2	0	1	0	39
39	1	0	0	0	2
40	2	0	0	0	7
41	0	0	2	0	10
42	4	0	0	0	10
43	4	0	1	0	16
44	4	0	8	0	11
45	6	0	2	0	93

APPENDIX E: CAMERA SUMMARY OF WILDLIFE EVENTS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera Number	Caribou Total	Muskox Total	Grizzly Bear Total	Wolverine Total	Other Species Total
46	12	0	2	1	3
47	5	0	0	0	7
48	2	0	0	0	4
49	5	2	5	0	23
50	0	0	1	0	4
51	31	0	0	0	3
53	2	0	0	0	25
55	6	0	4	0	23
56	0	0	0	0	2
57	0	0	1	0	14
58	0	0	4	0	6
59	5	0	1	0	12
60	3	0	5	0	7

# APPENDIX F WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025



APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
1	Treatment	9/6/2024 20:30	Ptarmigan	Standing	1	NA
1	Treatment	9/18/2024 7:30	Unknown	NA	1	NA
1	Treatment	5/13/2025 14:45	Bird	Walking	2	Two birds in the path of the plough; seem curious about the vehicle and are moving around it
1	Treatment	5/14/2025 8:00	Bird	Standing	1	NA
1	Treatment	5/17/2025 8:00	Bird	Standing	1	NA
1	Treatment	5/18/2025	Bird	Standing	1	NA
1	Treatment	7/2/2025 2:30	Arctic hare	Resting	1	NA
1	Treatment	7/2/2025 4:00	Arctic hare	Resting	1	NA
1	Treatment	7/4/2025 2:00	Arctic hare	Feeding	1	NA
1	Treatment	7/7/2025 1:30	Arctic hare	Standing	1	NA
1	Treatment	7/7/2025 23:25	Caribou	Walking	4	NA
1	Treatment	7/8/2025 1:00	Caribou	Running	2	NA
1	Treatment	7/9/2025 3:44	Caribou	Walking	6	NA
1	Treatment	7/11/2025 1:30	Arctic hare	Walking	1	NA
1	Treatment	7/13/2025 2:00	Arctic hare	Feeding	1	NA
1	Treatment	7/13/2025 10:00	Arctic hare	Feeding	1	NA
1	Treatment	7/13/2025 15:00	Arctic hare	Standing	1	NA
1	Treatment	7/15/2025 2:00	Arctic hare	Standing	1	NA
1	Treatment	7/15/2025 19:54	Caribou	Walking	1	NA
1	Treatment	7/16/2025 1:18	Caribou	Running	1	NA
1	Treatment	7/17/2025 4:09	Caribou	Walking	1	NA
1	Treatment	7/18/2025	Arctic hare	Standing	1	NA
1	Treatment	7/19/2025 9:00	Arctic hare	Feeding	1	NA
1	Treatment	7/20/2025 18:00	Arctic hare	Standing	1	NA
1	Treatment	7/20/2025 22:30	Arctic hare	Resting	1	NA
1	Treatment	7/22/2025 2:30	Arctic hare	Feeding	1	NA
1	Treatment	7/23/2025 4:00	Arctic hare	Standing	1	NA
1	Treatment	7/23/2025 5:00	Arctic hare	Feeding	1	NA
1	Treatment	7/23/2025 6:30	Arctic hare	Standing	1	NA
1	Treatment	7/25/2025 1:00	Arctic hare	Feeding	1	NA
1	Treatment	7/25/2025 4:30	Arctic hare	Feeding	1	NA
1	Treatment	7/25/2025 11:00	Arctic hare	Standing	1	NA
1	Treatment	7/26/2025 21:00	Arctic hare	Standing	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
1	Treatment	7/28/2025 22:30	Arctic hare	Standing	1	NA
1	Treatment	7/29/2025 3:30	Arctic hare	Walking	2	NA
1	Treatment	7/29/2025 7:00	Arctic hare	Feeding	1	NA
1	Treatment	7/29/2025 22:28	Caribou	Walking	6	Helicopter flying over causes them to move away
1	Treatment	7/30/2025 0:30	Caribou	Walking	2	NA
1	Treatment	7/30/2025 1:30	Caribou	Walking	1	NA
1	Treatment	8/1/2025 17:00	Arctic hare	Resting	1	NA
1	Treatment	8/1/2025 18:00	Arctic hare	Feeding	1	NA
1	Treatment	8/5/2025 7:45	Caribou	Walking	1	NA
1	Treatment	8/5/2025 9:46	Caribou	Walking	1	NA
1	Treatment	8/8/2025 19:30	Arctic hare	Resting	1	NA
1	Treatment	8/8/2025 21:00	Arctic hare	Standing	1	NA
1	Treatment	8/9/2025 19:58	Caribou	Walking	1	NA
10	ZOI	9/5/2024 19:30	Grizzly bear	Standing	1	NA
10	ZOI	9/6/2024 4:51	Caribou	Feeding	2	NA
10	ZOI	9/9/2024 12:30	Caribou	Feeding	1	NA
10	ZOI	9/9/2024 17:00	Caribou	Feeding	1	NA
10	ZOI	9/11/2024 15:30	Grizzly bear	Feeding	2	NA
10	ZOI	9/11/2024 15:58	Unknown	NA	1	NA
10	ZOI	11/10/2024 1:30	Small mammal	Running	1	Likely a hare
10	ZOI	11/10/2024 1:44	Arctic fox	Walking	1	NA
10	ZOI	12/1/2024 2:57	Arctic hare	Feeding	1	NA
10	ZOI	12/1/2024 12:00	Small mammal	Running	1	NA
10	ZOI	12/1/2024 12:06	Arctic fox	Walking	1	NA
10	ZOI	12/26/2024 20:00	Unknown	Running	1	Likely a small mammal or hare
10	ZOI	7/12/2025 20:38	Caribou	Feeding	3	NA
10	ZOI	8/10/2025	Unknown	Feeding	1	NA
10	ZOI	8/12/2025 23:09	Arctic fox	Walking	1	NA
10	ZOI	8/13/2025 19:31	Small mammal	Running	1	Ground squirrel
10	ZOI	8/13/2025 22:00	Caribou	Feeding	1	NA
10	ZOI	8/14/2025 7:00	Caribou	Feeding	1	NA
11	Treatment	9/22/2024 6:47	Unknown	Inspecting camera	1	NA
11	Treatment	5/15/2025 16:00	Unknown	Standing	1	Unknown large animal in distance
11	Treatment	7/9/2025 3:00	Caribou	Standing	2	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
11	Treatment	7/11/2025 20:00	Caribou	Feeding	1	NA
11	Treatment	7/13/2025 6:30	Caribou	Feeding	1	NA
11	Treatment	7/17/2025 3:12	Unknown	Walking	1	NA
11	Treatment	7/21/2025 22:38	Caribou	Walking	1	NA
11	Treatment	7/25/2025 9:00	Caribou	Resting	1	NA
11	Treatment	8/1/2025 6:10	Bird	Flying	1	NA
11	Treatment	8/17/2025 21:30	Caribou	Standing	1	NA
11	Treatment	8/21/2025 11:07	Bird	Flying	1	NA
11	Treatment	8/27/2025 7:00	Bird	Flying	2	NA
11	Treatment	8/29/2025 17:30	Caribou	Walking	1	NA
11	Treatment	8/29/2025 17:40	Unknown	Walking	1	NA
12	ZOI	7/7/2025 4:10	Caribou	Walking	3	NA
12	ZOI	7/11/2025 10:44	Caribou	Inspecting camera	1	NA
12	ZOI	7/15/2025 7:30	Grizzly bear	Inspecting camera	1	Knocked cam over
12	ZOI	7/15/2025 7:33	Unknown	Inspecting camera	1	NA
12	ZOI	7/15/2025 13:00	Unknown	Resting	1	NA
12	ZOI	7/15/2025 13:18	Small mammal	Standing	1	NA
12	ZOI	7/15/2025 19:40	Small mammal	Standing	1	Ground squirrel
12	ZOI	7/17/2025 6:21	Small mammal	Walking	1	Ground squirrel
12	ZOI	7/18/2025 8:26	Grizzly bear	Inspecting camera	2	NA
12	ZOI	7/18/2025 8:44	Unknown	Inspecting camera	1	NA
12	ZOI	7/18/2025 13:28	Small mammal	Standing	1	Ground squirrel
12	ZOI	7/19/2025 11:24	Unknown	Inspecting camera	1	NA
12	ZOI	7/19/2025 11:24	Grizzly bear	Resting	1	NA
12	ZOI	7/20/2025 18:30	Grizzly bear	Inspecting camera	1	NA
12	ZOI	7/20/2025 18:39	Unknown	Resting	1	NA
12	ZOI	7/20/2025 21:31	Unknown	Resting	1	NA
12	ZOI	7/21/2025 19:55	Bird	Standing	1	NA
12	ZOI	7/27/2025 18:26	Small mammal	Running	1	Ground squirrel
12	ZOI	7/28/2025 14:46	Small mammal	Standing	1	Ground squirrel
12	ZOI	8/4/2025 7:27	Small mammal	Running	1	Ground squirrel
12	ZOI	8/7/2025 0:47	Unknown	Inspecting camera	1	Canine species?
12	ZOI	8/8/2025 8:42	Unknown	Inspecting camera	1	NA
12	ZOI	8/9/2025 10:55	Small mammal	Standing	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
12	ZOI	8/11/2025 21:06	Unknown	Inspecting camera	1	NA
12	ZOI	8/22/2025 14:00	Bird	Feeding	4	CAGO
12	ZOI	8/22/2025 15:30	Bird	Feeding	8	CAGO
12	ZOI	8/26/2025 11:00	Bird	Standing	3	CAGO
13	Treatment	9/13/2024 8:30	Bird	Feeding	1	CAGO
13	Treatment	9/15/2024 10:30	Bird	Standing	1	CAGO
13	Treatment	9/19/2024 12:00	Bird	Resting	4	CAGO
13	Treatment	10/11/2024 10:59	Caribou	Walking	1	NA
13	Treatment	10/27/2024 17:40	Arctic fox	Standing	1	NA
13	Treatment	5/10/2025 1:09	Arctic fox	Walking	1	NA
13	Treatment	5/21/2025 18:12	Wolverine	Walking	1	NA
13	Treatment	7/6/2025 19:30	Caribou	Feeding	1	NA
13	Treatment	7/19/2025 18:16	Unknown	Inspecting camera	1	Likely grizzly
13	Treatment	7/19/2025 18:16	Grizzly bear	Inspecting camera	1	NA
13	Treatment	7/21/2025 23:05	Grizzly bear	Inspecting camera	1	NA
13	Treatment	7/21/2025 23:05	Unknown	Inspecting camera	1	NA
13	Treatment	7/29/2025 23:00	Caribou	Feeding	1	NA
14	ZOI	9/11/2024 18:50	Unknown	Inspecting camera	1	NA
14	ZOI	9/11/2024 18:50	Grizzly bear	Inspecting camera	1	NA
14	ZOI	9/12/2024 10:28	Unknown	Inspecting camera	1	NA
14	ZOI	9/16/2024 14:49	Small mammal	Inspecting camera	1	Ground squirrel
14	ZOI	9/21/2024 21:30	Small mammal	Running	1	Mouse species
14	ZOI	9/23/2024 17:35	Small mammal	Standing	1	NA
14	ZOI	9/26/2024 1:30	Small mammal	Running	1	Mouse species
14	ZOI	9/30/2024 10:40	Grizzly bear	Inspecting camera	1	NA
14	ZOI	10/9/2024 1:28	Small mammal	Standing	1	Mouse species
14	ZOI	10/9/2024 10:13	Unknown	Inspecting camera	1	NA
14	ZOI	10/11/2024 5:41	Small mammal	Walking	1	Mouse species
14	ZOI	10/12/2024 3:30	Small mammal	Running	1	Mouse species
14	ZOI	10/13/2024	Small mammal	Running	1	Mouse species
14	ZOI	10/13/2024 3:44	Small mammal	Standing	1	Mouse species
14	ZOI	7/7/2025 0:15	Caribou	Standing	1	NA
14	ZOI	7/9/2025 5:30	Caribou	Feeding	1	NA
14	ZOI	7/18/2025 8:44	Grizzly bear	Inspecting camera	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
14	ZOI	7/20/2025 1:30	Unknown	Walking	1	NA
14	ZOI	7/26/2025 7:30	Grizzly bear	Inspecting camera	1	NA
14	ZOI	7/26/2025 7:56	Unknown	Inspecting camera	1	NA
14	ZOI	7/26/2025 11:20	Bird	Walking	1	NA
14	ZOI	7/26/2025 15:35	Bird	Standing	1	NA
14	ZOI	7/26/2025 17:36	Bird	Standing	1	NA
14	ZOI	7/27/2025 1:02	Small mammal	Walking	1	Mouse species
14	ZOI	7/27/2025 13:00	Bird	Flying	1	NA
14	ZOI	7/27/2025 18:30	Bird	Flying	1	NA
14	ZOI	7/27/2025 18:53	Small mammal	Walking	1	NA
14	ZOI	7/28/2025 2:05	Small mammal	Standing	1	NA
14	ZOI	7/28/2025 17:17	Bird	Flying	1	NA
14	ZOI	7/28/2025 18:00	Bird	Flying	1	NA
14	ZOI	7/28/2025 19:39	Bird	Walking	1	NA
14	ZOI	7/28/2025 21:12	Bird	Flying	1	NA
14	ZOI	7/29/2025 1:58	Small mammal	Standing	1	Mouse species
14	ZOI	7/29/2025 18:25	Bird	Standing	1	NA
14	ZOI	7/29/2025 19:21	Small mammal	Feeding	1	Ground squirrel
14	ZOI	7/30/2025 0:40	Small mammal	Walking	1	Mouse species
14	ZOI	7/30/2025 4:30	Bird	Flying	1	NA
14	ZOI	7/30/2025 6:30	Bird	Flying	1	NA
14	ZOI	7/30/2025 8:00	Bird	Flying	1	NA
14	ZOI	7/30/2025 22:00	Bird	Flying	1	NA
14	ZOI	7/31/2025 0:10	Small mammal	Standing	1	NA
14	ZOI	7/31/2025 3:30	Bird	Flying	1	NA
14	ZOI	7/31/2025 14:00	Small mammal	Walking	1	NA
14	ZOI	7/31/2025 14:27	Unknown	Inspecting camera	1	NA
14	ZOI	7/31/2025 16:07	Bird	Standing	1	NA
14	ZOI	8/1/2025 5:15	Caribou	Feeding	1	NA
14	ZOI	8/1/2025 9:00	Small mammal	Running	1	NA
14	ZOI	8/1/2025 9:41	Bird	Feeding	1	NA
14	ZOI	8/1/2025 11:30	Bird	Walking	1	NA
14	ZOI	8/1/2025 12:10	Unknown	Inspecting camera	1	NA
14	ZOI	8/1/2025 12:55	Bird	Walking	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
14	ZOI	8/1/2025 13:30	Bird	Flying	1	NA
14	ZOI	8/1/2025 14:22	Bird	Walking	1	NA
14	ZOI	8/1/2025 15:52	Bird	Standing	1	NA
14	ZOI	8/1/2025 17:55	Unknown	Inspecting camera	1	NA
14	ZOI	8/2/2025 9:07	Bird	Walking	1	NA
14	ZOI	8/2/2025 9:18	Small mammal	Standing	1	Ground squirrel
14	ZOI	8/2/2025 11:46	Unknown	Walking	1	NA
14	ZOI	8/2/2025 14:37	Unknown	Standing	1	NA
14	ZOI	8/2/2025 15:48	Bird	Standing	1	NA
14	ZOI	8/2/2025 16:30	Bird	Running	1	NA
14	ZOI	8/2/2025 20:00	Unknown	Walking	1	NA
14	ZOI	8/3/2025 5:00	Unknown	Running	1	NA
14	ZOI	8/3/2025 5:00	Bird	Standing	1	NA
14	ZOI	8/3/2025 9:00	Bird	Flying	1	NA
14	ZOI	8/3/2025 9:27	Small mammal	Standing	1	Ground squirrel
14	ZOI	8/3/2025 11:00	Bird	Running	1	NA
14	ZOI	8/3/2025 16:30	Bird	Running	1	NA
14	ZOI	8/3/2025 19:47	Small mammal	Feeding	1	NA
14	ZOI	8/4/2025 10:00	Unknown	Running	1	NA
14	ZOI	8/4/2025 10:25	Bird	Standing	1	NA
14	ZOI	8/5/2025 11:01	Unknown	Standing	1	NA
14	ZOI	8/6/2025 13:31	Bird	Standing	1	NA
14	ZOI	8/6/2025 23:29	Small mammal	Running	1	NA
14	ZOI	8/7/2025 2:56	Small mammal	Feeding	1	NA
14	ZOI	8/7/2025 9:00	Unknown	Running	1	NA
14	ZOI	8/7/2025 19:00	Bird	Flying	1	NA
14	ZOI	8/8/2025 10:11	Unknown	Walking	1	NA
14	ZOI	8/8/2025 10:13	Small mammal	Feeding	1	Ground squirrel
14	ZOI	8/9/2025	Small mammal	Running	1	Mouse species
14	ZOI	8/9/2025 12:30	Bird	Walking	1	NA
14	ZOI	8/9/2025 13:53	Bird	Resting	1	NA
14	ZOI	8/9/2025 14:38	Unknown	Running	1	NA
14	ZOI	8/9/2025 14:38	Small mammal	Standing	1	Ground squirrel
14	ZOI	8/9/2025 20:09	Small mammal	Standing	1	Ground squirrel

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
14	ZOI	8/10/2025 1:20	Small mammal	Standing	1	Mouse species
14	ZOI	8/10/2025 10:04	Bird	Standing	1	NA
14	ZOI	8/10/2025 12:30	Bird	Standing	1	NA
14	ZOI	8/11/2025 2:30	Small mammal	Running	1	NA
14	ZOI	8/11/2025 3:17	Small mammal	Standing	1	Mouse species
14	ZOI	8/11/2025 5:30	Bird	Running	1	NA
14	ZOI	8/11/2025 6:00	Bird	Standing	1	NA
14	ZOI	8/11/2025 9:39	Small mammal	Standing	1	Ground squirrel
14	ZOI	8/11/2025 9:40	Wolverine	Walking	1	NA
14	ZOI	8/11/2025 11:30	Bird	Feeding	1	NA
14	ZOI	8/11/2025 13:13	Bird	Resting	1	NA
14	ZOI	8/12/2025	Small mammal	Running	1	Mouse species
14	ZOI	8/12/2025 10:15	Bird	Resting	1	NA
14	ZOI	8/12/2025 10:15	Small mammal	Walking	1	Ground squirrel
14	ZOI	8/12/2025 10:15	Unknown	Walking	1	NA
14	ZOI	8/12/2025 11:39	Small mammal	Walking	1	Ground squirrel
14	ZOI	8/13/2025 1:50	Small mammal	Standing	1	Mouse species
14	ZOI	8/13/2025 15:00	Bird	Running	1	NA
14	ZOI	8/14/2025 2:51	Small mammal	Standing	1	Mouse species
14	ZOI	8/14/2025 7:30	Small mammal	Running	1	NA
14	ZOI	8/14/2025 7:53	Unknown	Inspecting camera	1	NA
14	ZOI	8/14/2025 12:00	Bird	Flying	1	NA
14	ZOI	8/14/2025 14:16	Bird	Standing	1	NA
14	ZOI	8/14/2025 22:19	Small mammal	Walking	1	NA
14	ZOI	8/14/2025 23:00	Small mammal	Running	1	Mouse species
14	ZOI	8/15/2025 2:00	Small mammal	Running	1	Mouse species
14	ZOI	8/15/2025 13:00	Bird	Flying	1	NA
14	ZOI	8/15/2025 22:30	Small mammal	Running	1	Mouse species
14	ZOI	8/16/2025 3:00	Small mammal	Running	1	Mouse species
14	ZOI	8/17/2025	Small mammal	Running	1	Mouse species
14	ZOI	8/17/2025 11:00	Bird	Flying	1	NA
14	ZOI	8/17/2025 13:30	Bird	Flying	1	NA
14	ZOI	8/18/2025 12:30	Bird	Running	1	NA
14	ZOI	8/18/2025 12:51	Unknown	Resting	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
14	ZOI	8/18/2025 22:13	Small mammal	Running	1	Mouse species
14	ZOI	8/22/2025 10:30	Bird	Running	1	NA
14	ZOI	8/22/2025 10:47	Unknown	Standing	1	NA
14	ZOI	8/23/2025 6:30	Bird	Feeding	1	NA
14	ZOI	8/27/2025 3:33	Small mammal	Feeding	1	Mouse species
14	ZOI	8/29/2025 6:07	Bird	Standing	1	NA
14	ZOI	8/30/2025 8:30	Bird	Running	1	NA
14	ZOI	8/31/2025 3:01	Small mammal	Running	1	Mouse species
15	Treatment	10/10/2024 10:30	Unknown	Walking	1	NA
15	Treatment	10/10/2024 10:59	Grizzly bear	Standing	1	NA
15	Treatment	10/24/2024 18:30	Unknown	Walking	1	NA
15	Treatment	6/1/2025 4:14	Bird	Flying	2	NA
15	Treatment	7/9/2025 7:15	Caribou	Walking	1	NA
15	Treatment	7/10/2025 17:30	Grizzly bear	Standing	1	NA
15	Treatment	7/11/2025 11:30	Unknown	Standing	1	NA
15	Treatment	7/13/2025 12:00	Small mammal	Standing	1	Marmot?
15	Treatment	7/14/2025 12:00	Small mammal	Standing	1	Marmot?
15	Treatment	7/15/2025 7:52	Caribou	Walking	1	NA
15	Treatment	7/15/2025 16:39	Bird	Flying	1	NA
15	Treatment	7/16/2025 20:30	Small mammal	Running	1	Marmot?
15	Treatment	7/17/2025 17:40	Grizzly bear	Inspecting camera	1	NA
15	Treatment	7/17/2025 17:40	Unknown	Inspecting camera	1	NA
15	Treatment	7/18/2025 19:30	Caribou	Feeding	1	NA
15	Treatment	7/20/2025 9:22	Caribou	Feeding	1	NA
15	Treatment	7/20/2025 9:22	Unknown	Walking	1	NA
15	Treatment	7/28/2025 20:51	Unknown	Inspecting camera	1	NA
15	Treatment	8/11/2025 18:59	Caribou	Feeding	1	NA
15	Treatment	8/17/2025 11:00	Small mammal	Standing	1	NA
15	Treatment	8/18/2025 10:13	Grizzly bear	Inspecting camera	1	NA
15	Treatment	8/18/2025 10:13	Unknown	Standing	1	NA
15	Treatment	8/22/2025 23:12	Caribou	Standing	1	NA
15	Treatment	8/23/2025 7:29	Unknown	Inspecting camera	1	NA
15	Treatment	8/23/2025 7:29	Grizzly bear	Walking	1	NA
16	Control	9/4/2024 2:36	Arctic fox	Walking	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
16	Control	9/4/2024 20:00	Arctic fox	Standing	1	NA
16	Control	9/4/2024 20:01	Red fox	Walking	1	NA
16	Control	9/7/2024 16:30	Small mammal	Standing	1	NA
16	Control	9/9/2024 14:30	Small mammal	Standing	1	NA
16	Control	9/9/2024 19:12	Caribou	Walking	2	NA
16	Control	9/18/2024 11:30	Small mammal	Standing	1	NA
16	Control	10/4/2024 12:34	Grizzly bear	Walking	1	NA
16	Control	10/10/2024 10:51	Grizzly bear	Walking	1	NA
16	Control	10/10/2024 10:51	Unknown	Inspecting camera	1	NA
16	Control	10/13/2024 14:30	Small mammal	Standing	1	NA
16	Control	4/8/2025 17:45	Red fox	Walking	1	NA
16	Control	5/3/2025 14:30	Red fox	Standing	1	NA
16	Control	7/5/2025 13:06	Unknown	Inspecting camera	1	NA
16	Control	7/17/2025 11:10	Caribou	Standing	2	NA
16	Control	7/22/2025 22:10	Caribou	Walking	1	NA
16	Control	8/13/2025 7:30	Small mammal	Standing	1	NA
17	Treatment	9/5/2024 10:17	Caribou	Standing	1	NA
17	Treatment	9/7/2024 15:45	Caribou	Standing	1	NA
17	Treatment	9/12/2024 12:00	Caribou	Standing	1	NA
17	Treatment	9/23/2024 19:16	Unknown	Inspecting camera	1	NA
17	Treatment	5/23/2025 10:45	Unknown	Inspecting camera	1	NA
18	Treatment	7/15/2025 5:54	Caribou	Walking	1	NA
18	Treatment	7/17/2025 5:59	Caribou	Walking	1	NA
18	Treatment	8/13/2025 8:35	Arctic hare	Standing	1	NA
19	Treatment	7/22/2025 19:46	Caribou	Walking	2	NA
19	Treatment	7/25/2025 8:30	Grizzly bear	Feeding	1	NA
19	Treatment	7/26/2025 22:48	Caribou	Walking	1	NA
19	Treatment	8/6/2025 5:06	Unknown	Inspecting camera	1	NA
19	Treatment	8/26/2025 17:19	Unknown	Inspecting camera	1	NA
2	Facilities	10/31/2024 12:46	Red fox	Walking	1	NA
2	Facilities	7/24/2025 3:22	Caribou	Walking	1	NA
2	Facilities	8/1/2025 13:15	Caribou	Walking	1	NA
2	Facilities	8/4/2025 3:50	Caribou	Walking	1	NA
20	Facilities	8/5/2025 5:03	Caribou	Walking	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
22	Treatment	7/9/2025 3:01	Caribou	Walking	1	NA
22	Treatment	7/10/2025 9:07	Small mammal	Standing	1	NA
22	Treatment	7/11/2025 13:16	Caribou	Feeding	1	NA
22	Treatment	7/11/2025 21:30	Grizzly bear	Walking	1	NA
22	Treatment	7/11/2025 23:00	Grizzly bear	Inspecting camera	1	Knocked cam over
22	Treatment	7/11/2025 23:05	Unknown	Inspecting camera	1	NA
22	Treatment	7/13/2025 5:00	Small mammal	Walking	1	Mouse species
22	Treatment	7/13/2025 12:30	Small mammal	Walking	1	NA
22	Treatment	7/13/2025 20:00	Unknown	Walking	1	Unknown mammal
22	Treatment	7/13/2025 20:05	Small mammal	Inspecting camera	1	NA
22	Treatment	7/14/2025 8:30	Bird	Walking	1	NA
22	Treatment	7/15/2025 4:30	Small mammal	Walking	1	NA
22	Treatment	7/15/2025 6:22	Unknown	Inspecting camera	1	NA
22	Treatment	7/16/2025 4:00	Bird	Walking	1	NA
22	Treatment	7/16/2025 20:30	Small mammal	Walking	1	NA
22	Treatment	7/16/2025 23:46	Unknown	Walking	1	NA
22	Treatment	7/17/2025 8:30	Small mammal	Walking	1	NA
22	Treatment	7/18/2025 14:30	Bird	Feeding	1	NA
22	Treatment	7/18/2025 14:59	Small mammal	Inspecting camera	1	NA
22	Treatment	7/19/2025 12:00	Unknown	Walking	1	NA
22	Treatment	7/19/2025 16:30	Small mammal	Walking	1	NA
22	Treatment	7/19/2025 20:30	Small mammal	Walking	1	NA
22	Treatment	7/20/2025 8:30	Small mammal	Running	1	NA
22	Treatment	7/20/2025 12:00	Small mammal	Running	1	NA
22	Treatment	7/21/2025 7:00	Bird	Feeding	1	NA
22	Treatment	7/22/2025 12:30	Unknown	Walking	1	NA
22	Treatment	7/22/2025 19:30	Small mammal	Walking	1	NA
22	Treatment	7/23/2025 3:30	Small mammal	Running	1	NA
22	Treatment	7/23/2025 15:14	Small mammal	Walking	1	Mouse species
22	Treatment	7/24/2025	Small mammal	Running	1	NA
22	Treatment	7/24/2025 23:00	Small mammal	Running	1	NA
22	Treatment	7/25/2025 5:00	Bird	Walking	1	NA
22	Treatment	7/25/2025 8:00	Small mammal	Walking	1	NA
22	Treatment	7/25/2025 11:30	Small mammal	Walking	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
22	Treatment	7/25/2025 21:20	Small mammal	Standing	1	NA
22	Treatment	7/26/2025 10:30	Small mammal	Walking	1	NA
22	Treatment	7/26/2025 14:00	Small mammal	Feeding	1	NA
22	Treatment	7/26/2025 21:30	Small mammal	Feeding	1	NA
22	Treatment	7/27/2025 16:08	Bird	Flying	1	NA
22	Treatment	7/27/2025 20:30	Small mammal	Running	1	NA
22	Treatment	7/28/2025 5:28	Small mammal	Standing	1	Mouse species
22	Treatment	7/28/2025 16:00	Small mammal	Walking	1	NA
22	Treatment	7/28/2025 16:36	Small mammal	Standing	1	NA
22	Treatment	7/28/2025 19:00	Bird	Feeding	1	NA
22	Treatment	7/28/2025 21:30	Small mammal	Feeding	1	NA
22	Treatment	7/30/2025 5:04	Small mammal	Standing	1	NA
22	Treatment	7/31/2025 2:30	Small mammal	Walking	1	NA
22	Treatment	7/31/2025 19:11	Small mammal	Standing	1	NA
22	Treatment	8/1/2025 4:30	Small mammal	Walking	1	NA
22	Treatment	8/1/2025 15:01	Small mammal	Walking	1	NA
22	Treatment	8/1/2025 21:00	Small mammal	Running	1	NA
22	Treatment	8/1/2025 21:55	Small mammal	Walking	1	NA
22	Treatment	8/2/2025 8:30	Small mammal	Running	1	NA
22	Treatment	8/2/2025 18:30	Bird	Feeding	1	NA
22	Treatment	8/2/2025 18:54	Small mammal	Running	1	NA
22	Treatment	8/2/2025 23:30	Bird	Feeding	1	NA
22	Treatment	8/5/2025	Small mammal	Running	1	NA
22	Treatment	8/5/2025 4:00	Small mammal	Running	1	NA
22	Treatment	8/5/2025 6:30	Small mammal	Running	1	NA
22	Treatment	8/5/2025 9:30	Bird	Feeding	1	NA
22	Treatment	8/6/2025 14:24	Small mammal	Walking	1	NA
22	Treatment	8/7/2025	Small mammal	Running	1	NA
22	Treatment	8/7/2025 16:00	Bird	Feeding	1	NA
22	Treatment	8/7/2025 17:08	Small mammal	Standing	1	NA
22	Treatment	8/7/2025 19:45	Small mammal	Standing	1	NA
22	Treatment	8/8/2025 8:00	Small mammal	Running	1	NA
22	Treatment	8/8/2025 10:00	Small mammal	Running	1	NA
22	Treatment	8/8/2025 18:30	Small mammal	Running	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
22	Treatment	8/9/2025 10:00	Small mammal	Running	1	NA
22	Treatment	8/9/2025 11:30	Small mammal	Running	1	NA
22	Treatment	8/9/2025 15:00	Bird	Running	1	NA
22	Treatment	8/9/2025 15:51	Small mammal	Standing	1	NA
22	Treatment	8/9/2025 17:00	Bird	Flying	1	NA
22	Treatment	8/9/2025 18:25	Small mammal	Standing	1	NA
22	Treatment	8/10/2025 15:30	Bird	Feeding	1	NA
22	Treatment	8/10/2025 16:04	Small mammal	Standing	1	NA
22	Treatment	8/11/2025 3:00	Small mammal	Running	1	NA
22	Treatment	8/11/2025 13:24	Bird	Flying	2	NA
22	Treatment	8/11/2025 19:52	Grizzly bear	Walking	1	NA
22	Treatment	8/12/2025 5:03	Grizzly bear	Walking	1	NA
22	Treatment	8/12/2025 10:06	Unknown	Inspecting camera	1	NA
22	Treatment	8/12/2025 18:31	Grizzly bear	Inspecting camera	1	NA
22	Treatment	8/17/2025 4:00	Grizzly bear	Standing	1	NA
22	Treatment	8/17/2025 4:55	Grizzly bear	Walking	1	NA
22	Treatment	8/17/2025 10:25	Bird	Flying	1	NA
22	Treatment	8/17/2025 13:14	Bird	Flying	2	NA
22	Treatment	8/17/2025 16:26	Small mammal	Standing	1	NA
22	Treatment	8/20/2025 7:30	Grizzly bear	Resting	1	NA
22	Treatment	8/20/2025 22:00	Grizzly bear	Standing	1	NA
22	Treatment	8/21/2025 13:00	Grizzly bear	Standing	1	NA
22	Treatment	8/21/2025 20:03	Grizzly bear	Standing	1	NA
22	Treatment	8/22/2025 12:30	Unknown	Inspecting camera	1	NA
22	Treatment	8/23/2025 12:00	Grizzly bear	Feeding	3	NA
22	Treatment	8/23/2025 15:28	Grizzly bear	Standing	3	NA
22	Treatment	8/23/2025 19:35	Grizzly bear	Walking	1	NA
22	Treatment	8/23/2025 21:14	Grizzly bear	Walking	2	NA
22	Treatment	8/24/2025 10:00	Grizzly bear	Standing	1	NA
22	Treatment	8/24/2025 17:38	Unknown	Standing	1	NA
22	Treatment	8/24/2025 21:35	Small mammal	Standing	1	NA
22	Treatment	8/25/2025	Small mammal	Running	1	NA
22	Treatment	8/25/2025 7:47	Bird	Standing	1	NA
22	Treatment	8/25/2025 23:00	Small mammal	Running	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
22	Treatment	8/26/2025 0:41	Small mammal	Standing	1	Mouse species
22	Treatment	8/26/2025 5:22	Bird	Standing	1	NA
22	Treatment	8/26/2025 8:00	Small mammal	Running	1	NA
22	Treatment	8/26/2025 22:10	Small mammal	Standing	1	Mouse species
22	Treatment	8/27/2025 0:27	Small mammal	Running	1	NA
22	Treatment	8/28/2025 1:30	Small mammal	Running	1	NA
22	Treatment	8/28/2025 23:00	Small mammal	Running	1	NA
22	Treatment	8/28/2025 23:51	Small mammal	Walking	1	Mouse species
22	Treatment	8/29/2025 3:30	Small mammal	Running	1	NA
22	Treatment	8/29/2025 7:00	Small mammal	Running	1	NA
22	Treatment	8/29/2025 7:25	Bird	Standing	1	NA
22	Treatment	8/30/2025 9:03	Bird	Standing	1	NA
22	Treatment	8/31/2025 2:03	Small mammal	Running	1	Mouse species
22	Treatment	8/31/2025 4:35	Small mammal	Standing	1	Mouse species
23	ZOI	9/11/2024 21:05	Red fox	Running	1	NA
23	ZOI	9/18/2024 19:54	Red fox	Running	1	NA
23	ZOI	9/21/2024 10:30	Caribou	Walking	2	NA
23	ZOI	10/2/2024 6:03	Red fox	Running	1	NA
23	ZOI	10/4/2024 7:47	Caribou	Standing	1	NA
23	ZOI	10/10/2024 16:14	Grizzly bear	Inspecting camera	1	NA
23	ZOI	10/10/2024 16:14	Unknown	Inspecting camera	1	NA
23	ZOI	10/11/2024 3:48	Arctic fox	Inspecting camera	1	NA
23	ZOI	10/24/2024 12:30	Ptarmigan	Standing	1	NA
23	ZOI	7/11/2025 9:43	Caribou	Walking	2	NA
23	ZOI	7/11/2025 9:43	Unknown	Inspecting camera	2	NA
23	ZOI	7/11/2025 11:33	Caribou	Inspecting camera	1	NA
23	ZOI	7/11/2025 23:11	Caribou	Walking	2	NA
23	ZOI	7/11/2025 23:11	Unknown	Inspecting camera	1	NA
23	ZOI	7/15/2025 4:24	Caribou	Walking	1	NA
23	ZOI	7/19/2025 14:07	Caribou	Inspecting camera	1	NA
23	ZOI	7/19/2025 14:08	Unknown	Standing	1	Unknown mammal
23	ZOI	7/22/2025 11:17	Unknown	Inspecting camera	1	Unknown mammal; likely grizzly or caribou
23	ZOI	7/22/2025 11:17	Grizzly bear	Standing	1	NA
23	ZOI	7/26/2025 22:28	Red fox	Running	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
23	ZOI	7/26/2025 22:58	Grizzly bear	Inspecting camera	1	NA
23	ZOI	7/26/2025 22:58	Unknown	Inspecting camera	1	Unknown mammal; likely grizzly or caribou
23	ZOI	8/3/2025 1:30	Unknown	Running	1	NA
23	ZOI	8/7/2025 10:05	Small mammal	Running	1	NA
23	ZOI	8/7/2025 21:28	Red fox	Resting	1	NA
23	ZOI	8/8/2025 4:30	Bird	Standing	1	NA
23	ZOI	8/10/2025 10:45	Small mammal	Feeding	1	NA
23	ZOI	8/13/2025 3:40	Caribou	Walking	1	NA
23	ZOI	8/16/2025 9:13	Small mammal	Standing	1	NA
23	ZOI	8/18/2025 9:08	Small mammal	Walking	1	NA
23	ZOI	8/20/2025 20:28	Unknown	Inspecting camera	1	NA
23	ZOI	8/21/2025 8:26	Small mammal	Walking	1	NA
23	ZOI	8/23/2025 7:20	Small mammal	Running	1	NA
23	ZOI	8/26/2025 15:46	Grizzly bear	Inspecting camera	1	Knocked cam over
23	ZOI	8/26/2025 15:47	Unknown	Inspecting camera	1	NA
23	ZOI	8/27/2025 7:37	Small mammal	Inspecting camera	1	NA
24	ZOI/Ladder	9/2/2024 11:00	Small mammal	Standing	1	NA
24	ZOI/Ladder	9/10/2024 17:30	Bird	Resting	20	CAGO
24	ZOI/Ladder	9/14/2024 11:00	Bird	Feeding	4	CAGO
24	ZOI/Ladder	9/17/2024 7:30	Bird	Standing	3	CAGO
24	ZOI/Ladder	9/17/2024 9:00	Bird	Standing	4	CAGO
25	ZOI	9/15/2024 7:18	Grizzly bear	Inspecting camera	1	NA
25	ZOI	6/1/2025 16:30	Small mammal	Walking	1	NA
25	ZOI	6/3/2025 18:07	Unknown	Inspecting camera	1	NA
25	ZOI	7/16/2025 13:00	Bird	Flying	1	NA
25	ZOI	7/26/2025 9:30	Caribou	Feeding	1	NA
25	ZOI	7/27/2025 2:00	Caribou	Walking	1	NA
26	ZOI	9/12/2024 20:31	Bird	Flying	1	NA
26	ZOI	9/20/2024 10:16	Grizzly bear	Inspecting camera	1	NA
26	ZOI	7/6/2025	Bird	Resting	2	2 waterfowl swimming
26	ZOI	7/6/2025 5:39	Caribou	Walking	1	NA
26	ZOI	7/6/2025 5:39	Grizzly bear	Standing	1	NA
26	ZOI	7/6/2025 5:39	Unknown	Inspecting camera	1	NA
26	ZOI	7/7/2025 3:10	Caribou	Walking	2	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
26	ZOI	7/8/2025 5:00	Caribou	Walking	1	NA
26	ZOI	7/9/2025 7:32	Caribou	Walking	1	NA
26	ZOI	7/10/2025 23:18	Caribou	Walking	2	NA
26	ZOI	7/10/2025 23:20	Unknown	Standing	1	NA
26	ZOI	7/12/2025 22:46	Caribou	Walking	1	NA
26	ZOI	7/16/2025 6:08	Caribou	Walking	1	NA
26	ZOI	7/18/2025 0:21	Caribou	Walking	1	NA
26	ZOI	7/18/2025 9:32	Unknown	Standing	1	NA
26	ZOI	7/19/2025 18:58	Bird	Walking	1	NA
26	ZOI	7/21/2025 8:44	Small mammal	Running	1	NA
26	ZOI	7/30/2025 10:12	Bird	Walking	1	NA
26	ZOI	8/6/2025 18:48	Bird	Walking	1	NA
26	ZOI	8/12/2025 1:17	Small mammal	Running	1	NA
26	ZOI	8/13/2025 4:45	Small mammal	Feeding	1	NA
26	ZOI	8/20/2025 9:37	Bird	Walking	1	NA
26	ZOI	8/20/2025 19:40	Small mammal	Walking	1	NA
26	ZOI	8/22/2025 9:53	Small mammal	Walking	1	NA
27	Facilities	7/2/2025 11:38	Unknown	Inspecting camera	1	NA
27	Facilities	7/6/2025 1:40	Caribou	Walking	2	NA
27	Facilities	7/15/2025 23:24	Caribou	Walking	1	NA
27	Facilities	8/5/2025 5:19	Bird	Flying	1	NA
27	Facilities	8/10/2025 8:02	Caribou	Walking	1	NA
28	Treatment	9/5/2024 18:34	Grizzly bear	Inspecting camera	1	NA
28	Treatment	9/5/2024 18:35	Unknown	Inspecting camera	1	Unknown mammal; likely grizzly or caribou
28	Treatment	9/12/2024 21:45	Grizzly bear	Walking	1	NA
28	Treatment	10/1/2024 18:42	Grizzly bear	Inspecting camera	1	NA
28	Treatment	10/1/2024 18:47	Unknown	Inspecting camera	1	NA
28	Treatment	10/14/2024 8:25	Grizzly bear	Inspecting camera	2	Knocked cam over
28	Treatment	7/11/2025 21:35	Red fox	Feeding	1	NA
28	Treatment	7/14/2025 14:58	Small mammal	Walking	1	NA
28	Treatment	7/20/2025 18:41	Caribou	Inspecting camera	1	NA
28	Treatment	7/20/2025 18:41	Unknown	Standing	1	NA
28	Treatment	7/21/2025 12:46	Small mammal	Walking	1	NA
28	Treatment	7/30/2025 19:01	Small mammal	Walking	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
28	Treatment	7/31/2025 6:57	Grizzly bear	Inspecting camera	1	Knocked cam over
28	Treatment	7/31/2025 6:57	Unknown	Standing	1	Likely grizzly
28	Treatment	7/31/2025 10:55	Bird	Feeding	1	NA
28	Treatment	8/2/2025 23:00	Bird	Walking	1	NA
28	Treatment	8/3/2025 9:09	Bird	Standing	1	NA
28	Treatment	8/5/2025 10:32	Bird	Feeding	1	NA
28	Treatment	8/7/2025 8:11	Bird	Walking	1	NA
28	Treatment	8/7/2025 8:13	Small mammal	Walking	1	NA
28	Treatment	8/7/2025 8:16	Unknown	Standing	1	Potential fox
28	Treatment	8/7/2025 15:12	Bird	Standing	1	NA
28	Treatment	8/8/2025 13:29	Small mammal	Inspecting camera	1	NA
28	Treatment	8/9/2025 12:09	Small mammal	Inspecting camera	1	NA
28	Treatment	8/9/2025 15:15	Bird	Walking	1	NA
28	Treatment	8/10/2025 10:05	Bird	Walking	1	NA
28	Treatment	8/10/2025 10:42	Bird	Feeding	1	NA
28	Treatment	8/10/2025 11:22	Bird	Walking	1	NA
28	Treatment	8/10/2025 12:49	Bird	Walking	1	NA
28	Treatment	8/11/2025 10:53	Bird	Standing	1	NA
28	Treatment	8/11/2025 11:25	Bird	Standing	1	NA
28	Treatment	8/11/2025 14:34	Bird	Walking	1	NA
28	Treatment	8/12/2025 10:32	Bird	Walking	1	NA
28	Treatment	8/12/2025 13:28	Bird	Standing	1	NA
28	Treatment	8/13/2025 7:47	Bird	Standing	1	NA
28	Treatment	8/13/2025 9:11	Bird	Standing	1	NA
28	Treatment	8/13/2025 12:22	Bird	Walking	1	NA
28	Treatment	8/15/2025 12:18	Small mammal	Walking	1	NA
3	Control	7/8/2025 0:16	Caribou	Running	1	NA
3	Control	7/8/2025 2:06	Caribou	Walking	1	NA
3	Control	7/8/2025 5:11	Caribou	Walking	1	NA
3	Control	7/15/2025 1:30	Caribou	Inspecting camera	1	NA
3	Control	7/16/2025 7:40	Caribou	Walking	1	NA
3	Control	7/17/2025 18:58	Caribou	Walking	2	NA
30	ZOI	7/18/2025 4:51	Caribou	Walking	2	NA
30	ZOI	7/24/2025 2:21	Grizzly bear	Running	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
30	ZOI	7/26/2025 14:30	Caribou	Walking	2	NA
31	Control	4/28/2025 19:07	Red fox	Walking	1	NA
31	Control	5/3/2025 10:49	Wolverine	Standing	1	NA
31	Control	5/3/2025 10:50	Unknown	Inspecting camera	1	NA
31	Control	7/22/2025 15:03	Small mammal	Feeding	1	NA
31	Control	7/23/2025 13:30	Small mammal	Feeding	1	NA
31	Control	8/11/2025 12:07	Small mammal	Walking	1	NA
31	Control	8/24/2025 9:30	Small mammal	Standing	1	NA
32	Treatment	9/8/2024 12:23	Caribou	Inspecting camera	1	NA
32	Treatment	9/8/2024 15:30	Bird	Walking	30	Waterfowl swimming
32	Treatment	10/3/2024 19:33	Unknown	Inspecting camera	1	Unknown mammal
32	Treatment	5/25/2025 18:00	Small mammal	Standing	1	NA
32	Treatment	6/1/2025 3:30	Bird	Resting	2	CAGO
32	Treatment	6/8/2025 9:30	Arctic fox	Walking	1	NA
32	Treatment	6/19/2025 2:30	Bird	Walking	1	Waterfowl swimming
32	Treatment	6/23/2025 17:30	Bird	Walking	1	Waterfowl swimming
32	Treatment	6/25/2025 22:30	Bird	Walking	2	Waterfowl swimming
32	Treatment	6/29/2025 9:00	Bird	Standing	1	NA
32	Treatment	7/1/2025 11:00	Bird	Walking	2	CAGO
32	Treatment	7/3/2025 7:00	Bird	Walking	20	Waterfowl swimming
32	Treatment	7/4/2025 3:30	Bird	Walking	2	CAGO
32	Treatment	7/4/2025 7:00	Bird	Feeding	2	CAGO
32	Treatment	7/4/2025 11:00	Bird	Standing	1	CAGO
32	Treatment	7/5/2025 17:30	Bird	NA	12	CAGO; swimming
32	Treatment	7/8/2025 16:07	Grizzly bear	Inspecting camera	1	NA
32	Treatment	7/8/2025 18:30	Bird	Standing	1	CAGO
32	Treatment	7/8/2025 19:12	Caribou	Walking	1	NA
32	Treatment	7/9/2025 5:30	Bird	Standing	1	CAGO
32	Treatment	7/9/2025 6:00	Caribou	Walking	1	NA
32	Treatment	7/13/2025 16:00	Bird	Walking	3	Waterfowl swimming
32	Treatment	7/14/2025 6:40	Grizzly bear	Inspecting camera	1	NA
32	Treatment	7/14/2025 6:40	Unknown	Walking	1	Unknown mammal
32	Treatment	7/16/2025 21:44	Caribou	Walking	1	NA
32	Treatment	7/24/2025 7:30	Bird	Walking	1	Waterfowl swimming

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
32	Treatment	7/25/2025 3:00	Red fox	Running	1	NA
32	Treatment	7/26/2025 12:00	Bird	Feeding	3	CAGO
32	Treatment	7/29/2025 3:49	Caribou	Walking	1	NA
32	Treatment	7/30/2025 0:13	Caribou	Walking	1	NA
32	Treatment	7/30/2025 4:29	Caribou	Walking	3	NA
32	Treatment	8/7/2025 19:53	Caribou	Walking	1	NA
32	Treatment	8/10/2025 18:30	Grizzly bear	Feeding	1	NA
32	Treatment	8/13/2025 8:00	Bird	Feeding	4	CAGO
32	Treatment	8/21/2025 15:37	Caribou	Walking	1	NA
32	Treatment	8/22/2025 10:47	Caribou	Walking	1	NA
32	Treatment	8/25/2025 9:00	Bird	Feeding	4	CAGO
32	Treatment	8/27/2025 10:36	Caribou	Walking	1	NA
33	Control	9/19/2024 9:03	Caribou	Walking	1	NA
33	Control	9/20/2024 20:22	Red fox	Running	1	NA
33	Control	9/28/2024 18:41	Small mammal	Running	1	NA
33	Control	9/29/2024 3:05	Small mammal	Running	1	NA
33	Control	10/8/2024 11:36	Grizzly bear	Inspecting camera	1	NA
33	Control	6/25/2025 15:34	Small mammal	Walking	1	NA
33	Control	6/28/2025 8:49	Small mammal	Walking	1	NA
33	Control	7/1/2025 20:37	Grizzly bear	Inspecting camera	1	NA
33	Control	7/1/2025 20:37	Unknown	Standing	1	Unknown mammal
33	Control	7/3/2025 20:01	Caribou	Feeding	1	NA
33	Control	7/3/2025 20:01	Unknown	Walking	1	NA
34	ZOI/Ladder	9/18/2024 8:00	Caribou	Inspecting camera	1	NA
34	ZOI/Ladder	2/28/2025 13:47	Caribou	Inspecting camera	2	NA
34	ZOI/Ladder	2/28/2025 13:48	Unknown	Inspecting camera	1	NA
34	ZOI/Ladder	2/28/2025 15:40	Caribou	Standing	1	NA
34	ZOI/Ladder	2/28/2025 17:56	Caribou	Inspecting camera	1	NA
34	ZOI/Ladder	2/28/2025 19:10	Caribou	Inspecting camera	1	NA
34	ZOI/Ladder	7/8/2025 20:51	Caribou	Walking	1	NA
34	ZOI/Ladder	7/9/2025 2:24	Caribou	Walking	1	NA
34	ZOI/Ladder	8/9/2025 8:50	Bird	Flying	2	CORA
34	ZOI/Ladder	8/9/2025 8:50	Ptarmigan	Standing	2	NA
34	ZOI/Ladder	8/10/2025 5:21	Bird	Walking	10	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
34	ZOI/Ladder	8/10/2025 20:30	Bird	Feeding	3	Crane
34	ZOI/Ladder	8/12/2025 6:30	Bird	Resting	8	NA
34	ZOI/Ladder	8/13/2025 16:30	Caribou	Walking	1	NA
34	ZOI/Ladder	8/18/2025 11:28	Bird	Flying	1	CORA
34	ZOI/Ladder	8/18/2025 12:00	Bird	Feeding	3	CORA
35	Facilities	7/2/2025 21:07	Bird	Standing	1	Raptor species
35	Facilities	7/6/2025 19:36	Caribou	Running	1	Running from vehicle
35	Facilities	7/10/2025 20:33	Small mammal	Running	1	NA
35	Facilities	7/14/2025 10:00	Caribou	Standing	2	on road
35	Facilities	7/30/2025 9:32	Red fox	Running	1	On road
35	Facilities	8/10/2025 9:00	Caribou	Walking	1	NA
35	Facilities	8/16/2025 14:48	Caribou	Running	1	NA
35	Facilities	8/18/2025 14:31	Caribou	Walking	1	On road with vehicle behind it
35	Facilities	8/22/2025 12:19	Caribou	Walking	1	NA
37	Control	9/18/2024 9:22	Caribou	Inspecting camera	1	NA
37	Control	9/29/2024 19:44	Caribou	Inspecting camera	1	NA
37	Control	10/2/2024 6:59	Grizzly bear	Inspecting camera	1	NA
37	Control	10/27/2024 20:22	Unknown	Inspecting camera	1	Canine species
37	Control	10/29/2024 23:00	Small mammal	Resting	1	NA
37	Control	5/22/2025 8:59	Bird	Walking	1	NA
37	Control	5/22/2025 12:15	Bird	Standing	1	NA
37	Control	5/26/2025 9:13	Bird	Standing	1	NA
37	Control	5/26/2025 13:18	Bird	Standing	1	NA
37	Control	5/26/2025 14:23	Bird	Walking	1	NA
37	Control	5/26/2025 21:27	Bird	Walking	2	NA
37	Control	5/26/2025 22:06	Bird	Walking	1	NA
37	Control	5/27/2025 4:27	Bird	Walking	1	NA
37	Control	5/27/2025 5:18	Bird	Walking	1	NA
37	Control	5/27/2025 17:05	Bird	Walking	1	NA
37	Control	5/29/2025 12:42	Bird	Standing	1	NA
37	Control	5/30/2025 6:02	Bird	Feeding	1	NA
37	Control	6/4/2025 3:35	Bird	Standing	1	NA
37	Control	6/4/2025 11:04	Bird	Standing	2	NA
37	Control	6/5/2025 2:55	Bird	Standing	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
37	Control	6/5/2025 5:13	Bird	Standing	1	NA
37	Control	6/5/2025 9:14	Bird	Walking	1	NA
37	Control	6/5/2025 11:30	Bird	Walking	1	NA
37	Control	6/5/2025 12:24	Bird	Standing	1	NA
37	Control	6/5/2025 20:03	Bird	Walking	1	NA
37	Control	6/7/2025 5:02	Bird	Walking	1	NA
37	Control	6/8/2025 4:20	Bird	Walking	1	NA
37	Control	6/8/2025 8:24	Bird	Standing	1	NA
37	Control	6/8/2025 9:25	Bird	Walking	1	NA
37	Control	6/10/2025 10:43	Bird	Walking	1	NA
37	Control	6/20/2025 0:41	Red fox	Inspecting camera	1	NA
37	Control	6/22/2025 7:52	Bird	Standing	1	NA
37	Control	6/22/2025 8:09	Small mammal	Inspecting camera	1	NA
37	Control	6/23/2025 8:03	Bird	Walking	1	NA
37	Control	6/25/2025 17:37	Bird	Walking	1	NA
37	Control	6/29/2025 22:23	Bird	Running	1	NA
37	Control	7/2/2025 3:05	Unknown	Inspecting camera	1	NA
37	Control	7/2/2025 3:06	Red fox	Inspecting camera	1	NA
37	Control	7/2/2025 16:13	Unknown	Standing	1	NA
37	Control	7/2/2025 16:13	Small mammal	Walking	1	NA
37	Control	7/3/2025 7:58	Small mammal	Standing	1	NA
37	Control	7/3/2025 8:05	Bird	Standing	1	NA
39	ZOI	9/7/2024 6:30	Caribou	Standing	1	NA
39	ZOI	4/4/2025 5:19	Arctic hare	Standing	1	NA
39	ZOI	4/17/2025 9:21	Unknown	Inspecting camera	1	Grizzly or wolverine
4	Control	9/25/2024 15:30	Unknown	Inspecting camera	1	Unknown mammal
4	Control	7/22/2025 19:44	Caribou	Walking	1	NA
4	Control	8/23/2025 5:47	Caribou	Inspecting camera	1	NA
4	Control	8/23/2025 20:55	Grizzly bear	Inspecting camera	2	NA
4	Control	8/23/2025 20:55	Unknown	Inspecting camera	1	Unknown mammal; likely grizzly or caribou
40	Control	9/4/2024 9:30	Bird	Resting	8	CAGO
40	Control	9/4/2024 20:23	Unknown	NA	1	NA
40	Control	5/13/2025 1:26	Caribou	Inspecting camera	1	NA
40	Control	5/13/2025 1:26	Unknown	Inspecting camera	1	Unknown mammal

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
40	Control	5/26/2025 16:00	Bird	Standing	2	CAGO
40	Control	5/26/2025 22:00	Bird	Standing	2	2 waterfowl
40	Control	5/27/2025 1:30	Bird	Resting	4	Snow Geese?
40	Control	5/28/2025	Bird	Standing	1	CAGO
40	Control	7/15/2025 6:38	Caribou	Running	2	NA
41	ZOI	9/1/2024 9:52	Grizzly bear	Inspecting camera	1	NA
41	ZOI	9/1/2024 9:54	Unknown	Inspecting camera	1	NA
41	ZOI	9/15/2024 7:09	Unknown	Inspecting camera	1	Unknown mammal
41	ZOI	9/15/2024 7:09	Grizzly bear	Inspecting camera	1	NA
41	ZOI	10/31/2024 14:35	Small mammal	Walking	1	NA
41	ZOI	11/3/2024 9:39	Small mammal	Walking	1	NA
41	ZOI	11/9/2024 15:55	Small mammal	Walking	1	NA
41	ZOI	11/10/2024 2:48	Small mammal	Walking	1	NA
41	ZOI	6/2/2025 21:04	Small mammal	Walking	1	NA
41	ZOI	6/6/2025 7:04	Small mammal	Walking	1	NA
41	ZOI	6/6/2025 23:49	Small mammal	Walking	1	NA
41	ZOI	6/22/2025 13:05	Small mammal	Running	1	NA
42	Treatment	1/3/2025 10:38	Red fox	Walking	1	NA
42	Treatment	1/9/2025 15:46	Unknown	Walking	1	NA
42	Treatment	4/12/2025 18:03	Red fox	Walking	1	NA
42	Treatment	7/6/2025 12:00	Red fox	Running	1	NA
42	Treatment	7/15/2025 5:46	Red fox	Running	1	NA
42	Treatment	7/15/2025 7:03	Red fox	Feeding	1	NA
42	Treatment	7/23/2025 0:55	Red fox	Running	1	NA
42	Treatment	7/29/2025 8:38	Caribou	Walking	1	NA
42	Treatment	8/4/2025 7:30	Red fox	Feeding	1	NA
42	Treatment	8/9/2025 19:48	Caribou	Walking	1	NA
42	Treatment	8/15/2025 10:50	Caribou	Walking	1	NA
42	Treatment	8/15/2025 12:30	Caribou	Feeding	1	NA
42	Treatment	8/15/2025 17:13	Small mammal	Standing	1	NA
42	Treatment	8/17/2025 13:24	Small mammal	Walking	1	NA
43	Control	9/7/2024 9:30	Bird	Resting	20	CAGO
43	Control	10/6/2024 9:49	Bird	Walking	2	Waterfowl
43	Control	3/1/2025 18:19	Red fox	Walking	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
43	Control	4/13/2025 10:23	Unknown	Standing	1	NA
43	Control	4/14/2025 19:26	Caribou	Inspecting camera	5	NA
43	Control	4/14/2025 20:00	Caribou	Feeding	2	NA
43	Control	4/14/2025 21:38	Caribou	Feeding	1	NA
43	Control	7/23/2025 23:49	Red fox	Running	1	NA
43	Control	7/23/2025 23:49	Unknown	Walking	1	NA
43	Control	7/24/2025 17:22	Grizzly bear	Resting	1	NA
43	Control	8/6/2025 17:17	Small mammal	Running	1	NA
43	Control	8/7/2025 8:32	Small mammal	Standing	1	NA
43	Control	8/11/2025 9:21	Bird	Feeding	1	NA
43	Control	8/15/2025 8:41	Small mammal	Standing	1	NA
43	Control	8/17/2025 8:53	Small mammal	Feeding	1	NA
43	Control	8/22/2025 9:10	Small mammal	Walking	1	NA
43	Control	8/24/2025 23:35	Red fox	Running	1	NA
43	Control	8/26/2025 5:44	Caribou	Walking	1	NA
43	Control	8/26/2025 9:26	Small mammal	Running	1	NA
43	Control	8/27/2025 11:40	Small mammal	Walking	1	NA
43	Control	8/29/2025 14:34	Small mammal	Walking	1	NA
44	ZOI	10/10/2024 14:24	Grizzly bear	Inspecting camera	1	NA
44	ZOI	10/10/2024 14:24	Caribou	Inspecting camera	1	NA
44	ZOI	10/10/2024 14:25	Unknown	Standing	1	NA
44	ZOI	4/4/2025 21:11	Grizzly bear	Inspecting camera	1	NA
44	ZOI	4/4/2025 21:13	Unknown	Inspecting camera	1	Unknown mammal
44	ZOI	4/25/2025 8:04	Unknown	Walking	1	NA
44	ZOI	5/4/2025 9:49	Caribou	Walking	1	NA
44	ZOI	5/17/2025 15:25	Caribou	Standing	1	NA
44	ZOI	5/19/2025 3:48	Unknown	Walking	1	NA
44	ZOI	5/20/2025 11:51	Caribou	Inspecting camera	6	NA
44	ZOI	5/29/2025 2:30	Unknown	Walking	1	NA
44	ZOI	6/5/2025 9:16	Bird	Flying	2	NA
44	ZOI	6/23/2025 9:27	Grizzly bear	Walking	1	NA
44	ZOI	7/8/2025 20:50	Grizzly bear	Inspecting camera	1	NA
44	ZOI	7/18/2025 5:38	Grizzly bear	Inspecting camera	1	NA
44	ZOI	7/20/2025 10:57	Grizzly bear	Inspecting camera	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
44	ZOI	7/24/2025 11:40	Small mammal	Standing	1	NA
44	ZOI	7/26/2025 23:38	Grizzly bear	Inspecting camera	1	NA
44	ZOI	8/15/2025 6:27	Grizzly bear	Inspecting camera	1	NA
44	ZOI	8/21/2025 12:05	Small mammal	Walking	1	NA
44	ZOI	8/24/2025 16:46	Bird	Walking	4	NA
44	ZOI	8/25/2025 12:58	Small mammal	Walking	1	NA
44	ZOI	8/26/2025 9:16	Bird	Flying	7	CAGO
45	Control	9/25/2024 15:58	Unknown	Inspecting camera	1	Unknown mammal
45	Control	10/5/2024 11:57	Unknown	Inspecting camera	1	Grizzly or wolverine
45	Control	10/5/2024 11:57	Grizzly bear	Inspecting camera	1	NA
45	Control	5/17/2025 10:50	Unknown	Inspecting camera	1	NA
45	Control	5/17/2025 10:50	Caribou	Inspecting camera	1	NA
45	Control	5/17/2025 10:55	Grizzly bear	Inspecting camera	1	NA
45	Control	5/17/2025 16:42	Caribou	Inspecting camera	1	NA
45	Control	5/22/2025 1:12	Unknown	Inspecting camera	1	Unknown mammal
45	Control	5/22/2025 1:12	Caribou	Inspecting camera	1	NA
45	Control	5/24/2025 11:11	Unknown	Inspecting camera	1	NA
45	Control	5/26/2025 8:27	Caribou	Inspecting camera	1	NA
45	Control	5/26/2025 8:28	Unknown	Inspecting camera	1	Likely grizzly
45	Control	5/27/2025 23:15	Unknown	Inspecting camera	1	NA
45	Control	5/27/2025 23:15	Caribou	Inspecting camera	1	NA
45	Control	5/31/2025 0:53	Unknown	Standing	1	NA
45	Control	7/6/2025 5:55	Small mammal	Walking	1	NA
45	Control	7/6/2025 19:39	Small mammal	Inspecting camera	1	NA
45	Control	7/12/2025 9:33	Small mammal	Standing	1	NA
45	Control	7/13/2025 13:08	Unknown	Walking	1	NA
45	Control	7/15/2025 7:44	Caribou	Walking	1	NA
45	Control	7/15/2025 9:08	Small mammal	Walking	1	NA
45	Control	7/16/2025 10:44	Small mammal	Walking	1	NA
45	Control	7/16/2025 11:21	Small mammal	Walking	1	NA
45	Control	7/16/2025 12:07	Small mammal	Inspecting camera	1	NA
45	Control	7/16/2025 15:08	Small mammal	Walking	1	NA
45	Control	7/17/2025 13:15	Small mammal	Walking	1	NA
45	Control	7/18/2025 16:54	Small mammal	Inspecting camera	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
45	Control	7/21/2025 18:19	Small mammal	Inspecting camera	1	NA
45	Control	7/22/2025 11:30	Small mammal	Walking	1	NA
45	Control	7/22/2025 14:04	Small mammal	Inspecting camera	1	NA
45	Control	7/23/2025 0:37	Small mammal	Standing	1	NA
45	Control	7/23/2025 11:02	Small mammal	Inspecting camera	1	NA
45	Control	7/23/2025 13:28	Small mammal	Walking	1	NA
45	Control	7/23/2025 18:23	Small mammal	Inspecting camera	1	NA
45	Control	7/24/2025 9:59	Small mammal	Inspecting camera	1	NA
45	Control	7/24/2025 12:05	Small mammal	Walking	1	NA
45	Control	7/24/2025 13:11	Small mammal	Inspecting camera	1	NA
45	Control	7/24/2025 15:56	Small mammal	Walking	1	NA
45	Control	7/24/2025 18:24	Small mammal	Walking	1	NA
45	Control	7/26/2025 12:55	Small mammal	Inspecting camera	1	NA
45	Control	7/26/2025 16:27	Small mammal	Inspecting camera	1	NA
45	Control	7/26/2025 17:34	Small mammal	Inspecting camera	1	NA
45	Control	7/27/2025 12:01	Small mammal	Inspecting camera	1	NA
45	Control	7/27/2025 14:20	Small mammal	Inspecting camera	1	NA
45	Control	7/28/2025 8:26	Small mammal	Inspecting camera	1	NA
45	Control	7/28/2025 12:14	Small mammal	Walking	1	NA
45	Control	7/28/2025 17:08	Small mammal	Inspecting camera	1	NA
45	Control	7/30/2025 8:18	Small mammal	Walking	1	NA
45	Control	7/30/2025 13:32	Small mammal	Walking	1	NA
45	Control	7/30/2025 19:56	Small mammal	Inspecting camera	1	NA
45	Control	7/31/2025 8:01	Small mammal	Inspecting camera	1	NA
45	Control	7/31/2025 15:45	Small mammal	Inspecting camera	1	NA
45	Control	7/31/2025 16:57	Small mammal	Inspecting camera	1	NA
45	Control	8/1/2025 12:32	Small mammal	Inspecting camera	1	NA
45	Control	8/1/2025 17:52	Small mammal	Inspecting camera	1	NA
45	Control	8/2/2025 7:39	Small mammal	Walking	1	NA
45	Control	8/2/2025 8:11	Small mammal	Inspecting camera	1	NA
45	Control	8/2/2025 8:54	Small mammal	Inspecting camera	1	NA
45	Control	8/2/2025 10:04	Small mammal	Inspecting camera	1	NA
45	Control	8/2/2025 11:30	Small mammal	Walking	1	NA
45	Control	8/2/2025 13:20	Small mammal	Inspecting camera	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
45	Control	8/4/2025 10:00	Small mammal	Inspecting camera	1	NA
45	Control	8/4/2025 16:38	Bird	Walking	1	NA
45	Control	8/5/2025 12:25	Small mammal	Standing	1	NA
45	Control	8/5/2025 14:47	Small mammal	Walking	1	NA
45	Control	8/6/2025 6:42	Small mammal	Inspecting camera	1	NA
45	Control	8/6/2025 10:26	Small mammal	Walking	1	NA
45	Control	8/6/2025 15:59	Small mammal	Walking	1	NA
45	Control	8/7/2025 15:53	Small mammal	Inspecting camera	1	NA
45	Control	8/7/2025 17:10	Small mammal	Inspecting camera	1	NA
45	Control	8/8/2025 8:57	Small mammal	Inspecting camera	1	NA
45	Control	8/9/2025 7:35	Small mammal	Inspecting camera	1	NA
45	Control	8/9/2025 10:41	Small mammal	Walking	1	NA
45	Control	8/9/2025 14:57	Small mammal	Inspecting camera	1	NA
45	Control	8/9/2025 18:17	Small mammal	Standing	1	NA
45	Control	8/10/2025 6:51	Small mammal	Inspecting camera	1	NA
45	Control	8/10/2025 18:43	Small mammal	Inspecting camera	1	NA
45	Control	8/11/2025 12:00	Small mammal	Inspecting camera	1	NA
45	Control	8/11/2025 14:21	Bird	Walking	1	NA
45	Control	8/11/2025 16:24	Small mammal	Inspecting camera	1	NA
45	Control	8/11/2025 18:17	Small mammal	Inspecting camera	1	NA
45	Control	8/12/2025 8:58	Bird	Standing	1	NA
45	Control	8/12/2025 10:05	Small mammal	Inspecting camera	1	NA
45	Control	8/12/2025 11:55	Small mammal	Walking	1	NA
45	Control	8/13/2025 12:38	Small mammal	Inspecting camera	1	NA
45	Control	8/13/2025 18:36	Small mammal	Inspecting camera	1	NA
45	Control	8/16/2025 0:25	Small mammal	Walking	1	NA
45	Control	8/16/2025 8:21	Small mammal	Inspecting camera	1	NA
45	Control	8/16/2025 8:21	Bird	Standing	1	NA
45	Control	8/16/2025 10:52	Bird	Standing	1	NA
45	Control	8/17/2025 8:26	Small mammal	Walking	1	NA
45	Control	8/17/2025 15:21	Small mammal	Inspecting camera	1	NA
45	Control	8/18/2025 16:50	Small mammal	Standing	1	NA
45	Control	8/19/2025 8:29	Small mammal	Inspecting camera	1	NA
45	Control	8/22/2025 18:39	Small mammal	Inspecting camera	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
45	Control	8/23/2025 4:56	Unknown	Walking	1	NA
45	Control	8/23/2025 15:23	Small mammal	Inspecting camera	1	NA
45	Control	8/25/2025 9:47	Small mammal	Inspecting camera	1	NA
45	Control	8/26/2025 19:25	Small mammal	Walking	1	NA
45	Control	8/26/2025 19:26	Unknown	Inspecting camera	1	NA
45	Control	8/30/2025 14:11	Unknown	Standing	1	NA
46	ZOI	9/18/2024 7:30	Unknown	Standing	1	NA
46	ZOI	10/11/2024 9:26	Grizzly bear	Inspecting camera	1	NA
46	ZOI	10/11/2024 9:26	Caribou	Inspecting camera	1	NA
46	ZOI	4/10/2025 10:03	Wolverine	Walking	1	NA
46	ZOI	5/5/2025 8:00	Caribou	Walking	1	NA
46	ZOI	5/5/2025 11:30	Caribou	Resting	2	NA
46	ZOI	7/24/2025 2:30	Caribou	Walking	1	NA
46	ZOI	7/26/2025 21:51	Grizzly bear	Inspecting camera	1	NA
46	ZOI	7/26/2025 21:51	Unknown	Inspecting camera	1	NA
46	ZOI	8/3/2025 16:30	Caribou	Walking	1	NA
46	ZOI	8/9/2025 16:30	Caribou	Walking	1	NA
46	ZOI	8/11/2025 17:30	Caribou	Walking	1	NA
46	ZOI	8/17/2025 17:00	Caribou	Feeding	1	NA
46	ZOI	8/17/2025 18:00	Bird	Flying	1	NA
46	ZOI	8/18/2025 16:30	Caribou	Feeding	1	NA
46	ZOI	8/19/2025 16:30	Caribou	Feeding	1	NA
46	ZOI	8/19/2025 18:00	Caribou	Feeding	1	NA
46	ZOI	8/27/2025 6:30	Caribou	Standing	1	NA
47	ZOI	9/20/2024 20:49	Bird	Flying	1	Owl
47	ZOI	5/25/2025 12:30	Bird	Standing	2	CAGO
47	ZOI	6/4/2025 19:50	Caribou	Inspecting camera	1	NA
47	ZOI	6/5/2025 8:49	Caribou	Inspecting camera	1	NA
47	ZOI	6/5/2025 8:49	Unknown	Inspecting camera	1	NA
47	ZOI	6/6/2025 8:30	Caribou	Walking	1	NA
47	ZOI	7/21/2025 0:50	Caribou	Walking	3	NA
47	ZOI	7/28/2025 21:39	Unknown	Inspecting camera	1	NA
47	ZOI	8/4/2025 6:45	Unknown	Walking	1	NA
47	ZOI	8/20/2025 6:31	Caribou	Walking	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
47	ZOI	8/28/2025 12:00	Bird	Resting	10	NA
47	ZOI	8/28/2025 13:13	Bird	Flying	1	CAGO
48	ZOI	9/2/2024 10:30	Unknown	Inspecting camera	1	NA
48	ZOI	9/5/2024 20:00	Caribou	Feeding	1	NA
48	ZOI	9/9/2024 7:30	Unknown	Resting	2	NA
48	ZOI	9/16/2024 16:38	Bird	Flying	3	cago
48	ZOI	8/9/2025 15:30	Unknown	Standing	1	NA
48	ZOI	8/17/2025 12:00	Caribou	Walking	1	NA
49	Control	5/23/2025 22:15	Caribou	Feeding	1	NA
49	Control	6/9/2025 13:36	Muskox	Walking	26	NA
49	Control	6/9/2025 18:56	Muskox	Inspecting camera	3	NA
49	Control	7/5/2025 14:36	Grizzly bear	Inspecting camera	1	NA
49	Control	7/5/2025 14:36	Unknown	Inspecting camera	1	Likely grizzly
49	Control	7/9/2025 21:52	Caribou	Walking	1	NA
49	Control	7/15/2025 8:26	Caribou	Walking	1	NA
49	Control	7/17/2025 21:01	Caribou	Walking	1	NA
49	Control	7/23/2025 0:17	Grizzly bear	Inspecting camera	1	Knocked camera over
49	Control	7/23/2025 0:19	Unknown	Inspecting camera	1	Knocked camera over
49	Control	7/23/2025 11:29	Bird	Walking	1	NA
49	Control	7/24/2025 10:23	Small mammal	Walking	1	NA
49	Control	7/24/2025 13:53	Small mammal	Walking	1	NA
49	Control	7/24/2025 16:55	Small mammal	Walking	1	NA
49	Control	7/25/2025 19:11	Bird	Standing	1	NA
49	Control	7/25/2025 20:21	Bird	Flying	1	NA
49	Control	7/26/2025 5:06	Small mammal	Walking	1	NA
49	Control	7/26/2025 9:08	Bird	Walking	1	NA
49	Control	7/26/2025 12:14	Bird	Standing	1	NA
49	Control	7/26/2025 22:43	Small mammal	Walking	1	NA
49	Control	7/30/2025 7:04	Bird	Standing	1	NA
49	Control	7/30/2025 7:04	Unknown	Inspecting camera	1	NA
49	Control	7/30/2025 22:55	Small mammal	Walking	1	NA
49	Control	7/31/2025 2:11	Small mammal	Standing	1	NA
49	Control	7/31/2025 6:07	Grizzly bear	Inspecting camera	1	NA
49	Control	7/31/2025 6:07	Unknown	Inspecting camera	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
49	Control	7/31/2025 18:02	Unknown	Inspecting camera	1	NA
49	Control	8/9/2025 2:03	Caribou	Walking	1	NA
49	Control	8/9/2025 8:25	Unknown	Standing	1	NA
49	Control	8/9/2025 9:14	Small mammal	Inspecting camera	1	NA
49	Control	8/9/2025 9:14	Unknown	Inspecting camera	1	NA
49	Control	8/24/2025 0:20	Small mammal	Standing	1	NA
49	Control	8/24/2025 16:21	Grizzly bear	Inspecting camera	1	NA
49	Control	8/24/2025 16:21	Unknown	Standing	1	NA
49	Control	8/26/2025 7:58	Grizzly bear	Inspecting camera	1	NA
5	Control	9/1/2024 11:37	Unknown	NA	1	NA
5	Control	9/6/2024 8:15	Unknown	Inspecting camera	1	Potentially a bear
5	Control	9/27/2024 12:26	Unknown	NA	1	NA
5	Control	10/2/2024 12:16	Unknown	Standing	1	Potentially a bear
5	Control	6/9/2025 2:00	Bird	Walking	1	NA
5	Control	6/13/2025 17:30	Bird	Walking	1	NA
50	Treatment	6/11/2025 20:31	Red fox	Walking	1	NA
50	Treatment	8/14/2025 19:17	Grizzly bear	Walking	1	NA
50	Treatment	8/26/2025 10:19	Bird	Flying	4	CAGO
50	Treatment	8/26/2025 12:30	Unknown	Resting	2	Potentially CAGO
50	Treatment	8/26/2025 13:00	Bird	Standing	6	CAGO
51	Facilities	7/8/2025 15:11	Unknown	Inspecting camera	1	NA
51	Facilities	7/8/2025 17:11	Caribou	Walking	1	NA
51	Facilities	7/9/2025 7:07	Caribou	Walking	1	NA
51	Facilities	7/9/2025 8:59	Caribou	Walking	1	NA
51	Facilities	7/15/2025 4:44	Caribou	Walking	1	NA
51	Facilities	7/15/2025 22:55	Caribou	Walking	1	NA
51	Facilities	7/16/2025 1:24	Caribou	Walking	1	NA
51	Facilities	7/16/2025 3:29	Caribou	Walking	1	NA
51	Facilities	7/16/2025 12:38	Caribou	Walking	1	NA
51	Facilities	7/16/2025 16:25	Caribou	Walking	1	NA
51	Facilities	7/16/2025 21:38	Caribou	Walking	1	NA
51	Facilities	7/22/2025 21:08	Caribou	Walking	2	NA
51	Facilities	7/27/2025 21:52	Caribou	Walking	3	NA
51	Facilities	7/28/2025 1:12	Caribou	Walking	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
51	Facilities	7/29/2025 1:29	Caribou	Walking	1	NA
51	Facilities	7/29/2025 2:29	Caribou	Walking	1	NA
51	Facilities	7/30/2025 0:02	Caribou	Walking	1	NA
51	Facilities	7/30/2025 17:07	Caribou	Walking	1	NA
51	Facilities	7/30/2025 18:33	Caribou	Walking	1	NA
51	Facilities	8/1/2025 8:45	Caribou	Walking	2	NA
51	Facilities	8/2/2025 21:26	Caribou	Walking	1	NA
51	Facilities	8/3/2025 20:58	Red fox	Walking	1	NA
51	Facilities	8/3/2025 20:58	Caribou	Standing	1	NA
51	Facilities	8/3/2025 20:58	Unknown	Standing	1	NA
51	Facilities	8/4/2025 21:56	Caribou	Walking	1	NA
51	Facilities	8/9/2025 15:29	Caribou	Walking	1	NA
51	Facilities	8/9/2025 18:30	Caribou	Walking	1	NA
51	Facilities	8/11/2025 15:59	Caribou	Walking	2	NA
51	Facilities	8/11/2025 17:15	Caribou	Walking	2	NA
51	Facilities	8/12/2025 16:48	Caribou	Walking	1	NA
51	Facilities	8/13/2025 12:37	Caribou	Walking	1	NA
51	Facilities	8/14/2025 10:11	Caribou	Walking	1	NA
51	Facilities	8/15/2025 14:50	Caribou	Walking	1	NA
51	Facilities	8/16/2025 13:05	Caribou	Walking	1	NA
53	Treatment	10/23/2024 19:35	Red fox	Running	1	NA
53	Treatment	11/4/2024 2:45	Red fox	Walking	1	NA
53	Treatment	11/22/2024 18:48	Red fox	Walking	1	NA
53	Treatment	1/2/2025 15:22	Caribou	Feeding	2	NA
53	Treatment	7/29/2025 11:35	Small mammal	Walking	1	NA
53	Treatment	8/6/2025 11:37	Small mammal	Walking	2	NA
53	Treatment	8/6/2025 16:14	Small mammal	Standing	1	NA
53	Treatment	8/9/2025 6:50	Small mammal	Feeding	1	NA
53	Treatment	8/10/2025 7:00	Bird	Standing	1	NA
53	Treatment	8/14/2025 9:38	Small mammal	Walking	1	NA
53	Treatment	8/17/2025 7:48	Small mammal	Walking	1	NA
53	Treatment	8/19/2025 0:36	Unknown	Inspecting camera	1	NA
53	Treatment	8/19/2025 0:36	Caribou	Inspecting camera	1	NA
53	Treatment	8/19/2025 7:45	Small mammal	Walking	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
53	Treatment	8/20/2025 7:23	Bird	Standing	1	NA
53	Treatment	8/20/2025 11:01	Small mammal	Walking	1	NA
53	Treatment	8/23/2025 7:52	Bird	Standing	1	NA
53	Treatment	8/23/2025 8:54	Small mammal	Walking	1	NA
53	Treatment	8/23/2025 16:30	Small mammal	Standing	1	NA
53	Treatment	8/24/2025 6:22	Bird	Standing	1	NA
53	Treatment	8/24/2025 10:06	Small mammal	Feeding	1	NA
53	Treatment	8/24/2025 10:41	Small mammal	Walking	1	NA
53	Treatment	8/25/2025 18:47	Small mammal	Walking	1	NA
53	Treatment	8/26/2025 12:18	Small mammal	Standing	1	NA
53	Treatment	8/27/2025 8:30	Bird	Walking	1	NA
53	Treatment	8/27/2025 10:30	Small mammal	Standing	1	NA
53	Treatment	8/28/2025 10:06	Small mammal	Walking	1	NA
55	ZOI	9/13/2024 8:00	Bird	Walking	2	NA
55	ZOI	9/22/2024 5:00	Bird	Walking	2	NA
55	ZOI	9/23/2024 10:00	Bird	Walking	1	NA
55	ZOI	9/25/2024 17:00	Bird	Resting	1	NA
55	ZOI	9/27/2024 10:30	Bird	Walking	2	NA
55	ZOI	9/28/2024 10:00	Bird	Walking	2	NA
55	ZOI	9/29/2024 9:00	Bird	Resting	2	NA
55	ZOI	9/30/2024 12:00	Bird	Walking	3	NA
55	ZOI	10/8/2024 20:00	Grizzly bear	Inspecting camera	1	NA
55	ZOI	10/8/2024 20:01	Unknown	Inspecting camera	1	NA
55	ZOI	10/11/2024 13:00	Bird	Resting	1	NA
55	ZOI	10/12/2024 10:30	Bird	Standing	1	NA
55	ZOI	10/12/2024 16:00	Bird	Resting	2	NA
55	ZOI	11/4/2024 16:30	Red fox	Walking	1	NA
55	ZOI	1/29/2025 22:57	Unknown	Inspecting camera	1	Grizzly?
55	ZOI	1/29/2025 22:57	Caribou	Inspecting camera	1	NA
55	ZOI	2/4/2025 5:16	Caribou	Walking	1	NA
55	ZOI	3/9/2025 19:28	Caribou	Feeding	3	NA
55	ZOI	3/9/2025 19:29	Unknown	Inspecting camera	1	NA
55	ZOI	3/21/2025 10:15	Red fox	Resting	1	NA
55	ZOI	3/23/2025 11:58	Red fox	Walking	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
55	ZOI	4/5/2025 12:09	Red fox	Walking	1	NA
55	ZOI	4/30/2025 11:00	Caribou	Walking	1	NA
55	ZOI	7/12/2025 22:33	Caribou	Walking	1	NA
55	ZOI	7/13/2025 18:34	Caribou	Walking	1	NA
55	ZOI	7/21/2025 14:20	Grizzly bear	Walking	3	NA
55	ZOI	8/8/2025 23:19	Grizzly bear	Inspecting camera	1	NA
55	ZOI	8/10/2025 8:06	Grizzly bear	Inspecting camera	1	NA
55	ZOI	8/10/2025 8:06	Unknown	Inspecting camera	1	Likely grizzly
55	ZOI	8/20/2025 9:30	Bird	Resting	4	Geese
55	ZOI	8/22/2025 20:30	Bird	Resting	20	Geese
55	ZOI	8/27/2025 14:00	Unknown	Standing	1	Unknown black animal in distance
55	ZOI	8/29/2025 11:30	Bird	Standing	1	Geese
56	Control	9/13/2024 17:40	Bird	Flying	4	CAGO
56	Control	8/30/2025 3:04	Bird	Flying	1	BAEA
57	ZOI	4/3/2025 13:22	Red fox	Walking	1	NA
57	ZOI	4/3/2025 13:22	Unknown	Walking	1	NA
57	ZOI	5/3/2025 21:37	Red fox	Walking	1	NA
57	ZOI	5/23/2025 11:46	Red fox	Walking	1	NA
57	ZOI	7/19/2025 22:57	Grizzly bear	Inspecting camera	2	NA
57	ZOI	7/19/2025 23:02	Unknown	Inspecting camera	1	Likely caribou
57	ZOI	7/24/2025 5:33	Small mammal	Standing	1	NA
57	ZOI	7/27/2025 6:04	Small mammal	Standing	1	NA
57	ZOI	7/27/2025 15:09	Bird	Standing	1	NA
57	ZOI	7/28/2025 7:35	Bird	Standing	1	NA
57	ZOI	7/30/2025 13:41	Bird	Standing	1	NA
57	ZOI	7/31/2025 4:06	Small mammal	Standing	1	NA
57	ZOI	7/31/2025 4:07	Bird	Standing	1	NA
57	ZOI	8/1/2025 1:45	Small mammal	Feeding	1	NA
57	ZOI	8/2/2025 5:58	Bird	Standing	1	NA
58	Control	9/11/2024 19:11	Grizzly bear	Inspecting camera	1	NA
58	Control	9/25/2024 8:30	Small mammal	Walking	1	NA
58	Control	9/25/2024 11:30	Small mammal	Walking	1	NA
58	Control	9/30/2024 7:00	Grizzly bear	Inspecting camera	1	NA
58	Control	9/30/2024 8:09	Grizzly bear	Resting	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
58	Control	5/27/2025 5:30	Bird	Standing	1	NA
58	Control	5/27/2025 13:33	Bird	Standing	1	NA
58	Control	5/28/2025 14:52	Bird	Feeding	1	NA
58	Control	7/29/2025 20:44	Grizzly bear	Inspecting camera	1	NA
58	Control	8/8/2025 6:16	Bird	Flying	1	NA
59	Treatment	9/4/2024 14:09	Grizzly bear	Walking	1	NA
59	Treatment	3/16/2025 12:17	Red fox	Walking	1	NA
59	Treatment	4/12/2025 9:30	Caribou	Feeding	3	NA
59	Treatment	4/30/2025 5:37	Caribou	Inspecting camera	1	NA
59	Treatment	5/1/2025 19:40	Caribou	Inspecting camera	1	NA
59	Treatment	5/1/2025 19:41	Unknown	Inspecting camera	1	NA
59	Treatment	5/10/2025 13:30	Small mammal	Standing	1	NA
59	Treatment	5/11/2025 15:40	Red fox	Walking	1	NA
59	Treatment	5/13/2025 13:35	Small mammal	Standing	1	NA
59	Treatment	5/18/2025 12:30	Small mammal	Standing	1	NA
59	Treatment	5/22/2025 6:30	Bird	Resting	1	NA
59	Treatment	5/22/2025 8:00	Bird	Flying	1	NA
59	Treatment	5/30/2025 1:00	Bird	Resting	1	NA
59	Treatment	7/9/2025 22:30	Unknown	Standing	1	NA
59	Treatment	7/22/2025 21:30	Caribou	Feeding	3	NA
59	Treatment	8/18/2025 5:56	Unknown	Inspecting camera	1	Grizzly or caribou
59	Treatment	8/18/2025 5:56	Caribou	Standing	1	NA
59	Treatment	8/26/2025 0:26	Bird	Flying	1	NA
6	Control	9/17/2024 11:01	Unknown	NA	1	NA
6	Control	10/11/2024 13:51	Unknown	NA	1	NA
6	Control	7/7/2025 18:07	Bird	Standing	1	NA
6	Control	7/24/2025 7:51	Bird	Feeding	2	NA
6	Control	7/29/2025 0:50	Small mammal	Walking	1	NA
6	Control	7/29/2025 6:42	Bird	Standing	1	NA
6	Control	8/1/2025 11:53	Bird	Standing	1	NA
6	Control	8/2/2025 4:28	Bird	Walking	1	NA
6	Control	8/2/2025 5:19	Bird	Walking	1	NA
6	Control	8/2/2025 7:34	Bird	Standing	1	NA
6	Control	8/2/2025 11:13	Bird	Standing	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
6	Control	8/2/2025 11:54	Small mammal	Walking	1	NA
6	Control	8/2/2025 14:03	Small mammal	Inspecting camera	1	NA
6	Control	8/7/2025 14:02	Small mammal	Inspecting camera	1	NA
6	Control	8/9/2025 8:08	Bird	Standing	1	NA
6	Control	8/9/2025 9:01	Bird	Walking	1	NA
6	Control	8/19/2025 13:38	Bird	Walking	1	NA
6	Control	8/19/2025 21:44	Unknown	NA	1	NA
6	Control	8/22/2025 1:27	Small mammal	Walking	1	Mouse species
6	Control	8/22/2025 2:45	Small mammal	Walking	1	NA
6	Control	8/24/2025 11:34	Small mammal	Inspecting camera	1	NA
6	Control	8/24/2025 22:30	Small mammal	Walking	1	Mouse species
6	Control	8/25/2025 12:09	Bird	Walking	1	NA
6	Control	8/26/2025 0:42	Small mammal	Inspecting camera	1	Mouse species
6	Control	8/28/2025 22:35	Unknown	NA	1	NA
60	Treatment	9/18/2024 10:46	Grizzly bear	Inspecting camera	1	NA
60	Treatment	7/13/2025 15:58	Unknown	NA	1	NA
60	Treatment	7/19/2025 12:30	Caribou	Resting	3	NA
60	Treatment	7/19/2025 14:27	Caribou	Walking	1	NA
60	Treatment	7/24/2025 23:45	Grizzly bear	Inspecting camera	1	NA
60	Treatment	7/24/2025 23:45	Unknown	Inspecting camera	1	NA
60	Treatment	8/1/2025 22:03	Grizzly bear	Walking	1	NA
60	Treatment	8/1/2025 22:03	Unknown	Inspecting camera	1	NA
60	Treatment	8/13/2025 22:00	Caribou	Walking	1	NA
60	Treatment	8/16/2025 19:30	Grizzly bear	Inspecting camera	2	Shadows
60	Treatment	8/21/2025 22:36	Grizzly bear	Standing	1	NA
60	Treatment	8/21/2025 22:36	Unknown	Inspecting camera	1	NA
60	Treatment	8/28/2025 11:29	Small mammal	Feeding	1	NA
60	Treatment	8/28/2025 12:13	Small mammal	Feeding	1	NA
60	Treatment	8/30/2025 11:00	Small mammal	Standing	1	NA
7	Control	4/16/2025 22:18	Unknown	Walking	1	NA
7	Control	5/13/2025 11:14	Arctic fox	Walking	1	NA
7	Control	5/26/2025 19:30	Ptarmigan	Standing	1	NA
7	Control	8/10/2025 23:00	Ptarmigan	Standing	4	NA
7	Control	8/12/2025 17:08	Caribou	Walking	1	NA

APPENDIX F: WILDLIFE EVENTS RECORDED BY WILDLIFE CAMERAS, DORIS AND MADRID AREAS, SEPTEMBER 2024 TO AUGUST 2025

Camera ID	Treatment	Timestamp	Species	Behaviour	Event Group Size	Comments
7	Control	8/13/2025 10:06	Caribou	Walking	1	NA
7	Control	8/18/2025 6:56	Caribou	Walking	1	NA
8	Control	9/2/2024 5:00	Caribou	Inspecting camera	1	NA
8	Control	9/3/2024 18:16	Caribou	Inspecting camera	1	NA
8	Control	9/18/2024 20:30	Unknown	Inspecting camera	1	NA
8	Control	9/18/2024 20:49	Grizzly bear	Walking	1	NA
9	Control	9/4/2024 5:32	Unknown	NA	1	NA
9	Control	9/4/2024 5:37	Grizzly bear	Walking	1	NA
9	Control	9/11/2024 10:15	Bird	Resting	1	NA
9	Control	9/25/2024 13:39	Grizzly bear	Inspecting camera	1	NA
9	Control	9/25/2024 13:40	Unknown	Inspecting camera	1	NA
9	Control	5/22/2025 14:49	Grizzly bear	Inspecting camera	1	NA
9	Control	5/22/2025 14:50	Unknown	NA	1	NA
9	Control	5/26/2025 22:00	Unknown	NA	1	NA
9	Control	5/27/2025 8:35	Unknown	NA	1	NA
9	Control	5/28/2025 11:30	Unknown	Inspecting camera	1	Camera re-positioned by animal; likely a grizzly
9	Control	5/28/2025 11:31	Grizzly bear	Inspecting camera	1	NA
9	Control	5/28/2025 15:00	Grizzly bear	Inspecting camera	3	Mother feeding in background; cub inspecting camera
9	Control	5/28/2025 16:06	Grizzly bear	Inspecting camera	1	NA
9	Control	5/28/2025 16:07	Unknown	Inspecting camera	1	NA
9	Control	5/29/2025 6:00	Bird	Walking	1	NA
9	Control	6/5/2025 20:29	Bird	Walking	1	NA
9	Control	6/6/2025 18:21	Bird	Walking	1	NA
9	Control	6/8/2025 14:06	Bird	Standing	1	NA
9	Control	6/9/2025 13:50	Bird	Standing	1	NA
9	Control	6/18/2025 20:11	Grizzly bear	Inspecting camera	1	NA
9	Control	6/18/2025 20:11	Unknown	Inspecting camera	1	NA
9	Control	6/19/2025 7:46	Bird	Standing	1	NA
9	Control	6/21/2025 9:10	Caribou	Feeding	3	NA
9	Control	6/27/2025 8:02	Small mammal	Standing	1	NA
9	Control	6/28/2025 8:12	Bird	Standing	1	NA
9	Control	7/1/2025 7:04	Bird	Standing	1	NA
9	Control	7/6/2025 14:50	Unknown	Inspecting camera	1	NA
9	Control	8/29/2025 21:40	Arctic hare	Walking	1	NA

# APPENDIX G WILDLIFE INTERACTIONS, INCIDENTS, AND MORTALITIES RECORDED AT THE MINE, 2025



## APPENDIX G: WILDLIFE INTERACTIONS, INCIDENTS, AND MORTALITIES RECORDED AT THE MINE, 2025

Incident Date	Incident Type	Species	Event Description	Immediate Response Actions
5 February 2025	Wildlife mortality	Ptarmigan	A colleague reported a dead ptarmigan on the roadside.	No action required
16 February 2025	Wildlife mortality	Arctic hare	A rock truck travelling on Windy Road struck an arctic hare after the animal ran in front of the vehicle.	No action required
26 March 2025	Wildlife mortality	Ptarmigan	While travelling southbound on Windy Road at Blind Hill (KM 6), several ptarmigans flew across the road in front of the pickup truck. A loud impact was heard. Upon inspection, one dead ptarmigan was found on the ground.	No action required
16 April 2025	Wildlife mortality	Ptarmigan	A ptarmigan carcass was found that appeared to have been partially scavenged.	No action required
14 May 2025	Wildlife mortality	Sik sik (Arctic ground squirrel)	No event description was provided.	No action required
18 May 2025	Wildlife interaction	Caribou	Due to safety concerns related to blasting activities and water entering blast holes, active deterrence was initiated. A caribou was resting in the area, and actions were delayed until the animal began grazing. The Environment Team then entered the tundra and encouraged the caribou to move away from the blast zone. Deterrence was conducted intermittently, allowing the animal to rest/graze approximately every 20 minutes over a 20–30-minute period.	Deterred; Successful
30 May 2025	Wildlife mortality	Sik sik (Arctic ground squirrel)	A surveyor reported a dead sik sik that had been run over on the exploration track near the Patch 7 portal junction.	No action required
9 June 2025	Wildlife mortality	Arctic fox	A dead arctic fox was found behind the STP. A limping fox had been observed around camp earlier in the winter and may have been the same individual. The cause of death and cause of injury are unknown.	No action required
16 June 2025	Wildlife interaction	Grizzly	A female bear with two cubs was observed on the Doris overburden near Doris Camp, an area where habituation is a concern. One bear banger was deployed to encourage the animals to leave. The deterrence was successful, and the bears moved west toward the tundra. Monitoring continued for an additional 40 minutes to confirm the bears did not return.	Deterred; Successful
16 July 2025	Wildlife interaction	Grizzly	A mother bear and two cubs were reported via the PAGRIZZLY channel. The Wildlife Response Team (WRT) responded. The same family group had been observed earlier near camp and remained in the area due to the apparent interest in the soil. Deterrent measures were used to discourage continued presence.	Monitored the area
31 July 2025	Wildlife mortality	Sik sik (Arctic ground squirrel)	A dead sik sik was observed on the road between the airstrip and main camp.	No action required
27 August 2025	Wildlife mortality	Sik sik (Arctic ground squirrel)	A sik sik ran under a truck wheel as the vehicle approached the road. There was no time for the driver to react.	No action required
27 August 2025	Wildlife mortality	Caribou	A dead caribou was found in Quarry D. Pre-blast environmental monitoring and quarry sweeps did not detect any wildlife, and post-blast checks also confirmed the area was clear at that time. The caribou carcass was later discovered by an equipment operator, prompting an immediate stop-work and investigation. Follow-up findings indicated the animal had likely entered the quarry after the final sweep or was concealed among quarry material, and evidence suggested the fatality resulted from the blast impact. Notifications were issued to regulators, and the carcass was relocated for natural scavenging. Corrective actions included strengthening pre-blast wildlife scans, improving coverage of blind-spot areas, ensuring a final sweep occurs within 30 minutes of detonation, and repeating sweeps if a blast is delayed by more than one hour.	Stop-work; Notifications to Regulators; Investigation
8 September 2025	Wildlife interaction	Grizzly	A bear was monitored near the Geotech Shop, with 1 minute and 18 seconds of drone-based deterrence used when the bear approached the building. The drone was used to direct the animal north.	Monitored the area
19 September 2025	Wildlife interaction	Grizzly	WRT responded to a bear report on the south side of Doris Mountain. The bear was not observed for approximately 30 minutes, after which it was seen on the west side of camp near the LRP. The bear departed through the LRP and continued onto the tundra, last seen approximately 800 m northwest of the site.	Monitored the area
4 October 2025	Wildlife interaction	Grizzly	WRT response totaled 12 person-hours. Four team members were involved. One minute of drone deterrence was used to move the bear off the helipad and direct it toward Doris Lake.	Monitored the area
10 October 2025	Wildlife interaction	Grizzly	WRT responded from 16:00 to 18:00 (two responders; 2 hours).	Monitored the area
11 October 2025	Wildlife interaction	Grizzly	WRT responded for 1.5 person-hours. A Nuna driver reported a bear sighting. The area at KM 3 East was monitored for 45 minutes.	Monitored the area

<b>Incident Date</b>	<b>Incident Type</b>	<b>Species</b>	<b>Event Description</b>	<b>Immediate Response Actions</b>
17 October 2025	Wildlife interaction	Caribou	WRT responded for 2 hours (first responder) and 1.5 hours (second responder). Caribou were observed in the area under limited visibility due to fog. Crew-change aircraft were expected, but the caribou left the area prior to landing and did not return.	Monitored the area
19 October 2025	Wildlife interaction	Grizzly	WRT responded for 4.5 person-hours (three responders). A bear was initially reported south of Doris Mountain but not immediately located. It was later observed east of the LRP before crossing the camp road and moving onto the tundra. The animal was last seen approximately 800 m away on bedrock.	Deterred; Successful
26 October 2025	Wildlife interaction	Grizzly	WRT responded for 4.5 person-hours (two responders). A bear was first observed east of the airstrip, then moved toward the east side of the south apron. Visual contact was lost as the bear moved southeast over a ridge.	Monitored the area
27 October 2025	Wildlife interaction	Grizzly	WRT responded for 2.5 person-hours (two responders). A bear was observed at the Doris Pumphouse before moving west toward the helipad. Radio communication was provided to STP pad personnel to seek shelter as a precaution. No deterrents were required. The bear continued southwest and left the area.	Monitored the area
27 October 2025	Wildlife interaction	Grizzly	WRT responded for 2 person-hours (two responders). A bear was observed at Windy Road KM 2 and moved over the ridge to the west, out of sight.	Deterred; Successful
8 November 2025	Wildlife interaction	Red fox	A Construction Supervisor reported a fox approaching workers near the sea cans west of A-Wing. The fox followed a worker into a sea can and attempted to nip at his boots. This behaviour is concerning, as close approach may indicate illness (e.g., rabies) or food conditioning. An inspection of the worksite found no signs of food or food waste in the sea cans or surrounding area.	Monitored the area

# APPENDIX H HOPE BAY MINE WILDLIFE SIGHTINGS LOG, 2025



## APPENDIX H: HOPE BAY WILDLIFE SIGHTINGS LOG, 2025

Date	Species Name	Count	Activity	General Location
5 January 2025	Snowy Owl	1	Flying	TLR/TIA Area
9 January 2025	Ptarmigan	9	Sitting	Windy Road / Madrid
12 January 2025	Red fox	1	Walking	Roberts Bay
15 January 2025	Arctic hare	1	Running	Doris Area
15 January 2025	Red fox	1	Walking	Windy Road / Madrid
17 January 2025	Caribou	2	Foraging	Windy Road / Madrid
19 January 2025	Red fox	1	Running	Windy Road / Madrid
19 January 2025	Red fox	1	Running/Walking	Windy Road / Madrid
20 January 2025	Ptarmigan	25	Foraging	TLR/TIA Area
21 January 2025	Red fox	1	Walking	Windy Road / Madrid
24 January 2025	Raven	2	Perched/Flying	Roberts Bay
25 January 2025	Ptarmigan	7	Flying	Windy Road / Madrid
26 January 2025	Gyrfalcon	1	Flying	Doris Area
26 January 2025	Wolverine	1	Walking	Windy Road / Madrid
26 January 2025	Red fox	1	Walking	Doris Area
26 January 2025	Ptarmigan	6	Walking	Doris Area
27 January 2025	Ptarmigan	14	Walking/Feeding	TLR/TIA Area
29 January 2025	Raven	2	Perched/Flying	Doris Area
31 January 2025	Caribou	8	Foraging	Windy Road / Madrid
1 February 2025	Red fox	1	Walking	Doris Area
4 February 2025	Caribou	2	Foraging	Windy Road / Madrid
4 February 2025	Caribou	2	Foraging	Windy Road / Madrid
4 February 2025	Caribou	2	Foraging	Windy Road / Madrid
4 February 2025	Fox	2	Walking	Windy Road / Madrid
4 February 2025	Common Raven	1	Flying	Doris Area
5 February 2025	Caribou	2	Foraging	Windy Road / Madrid
5 February 2025	Fox	1	Walking	Doris Area
8 February 2025	Arctic hare	1	Sitting	Windy Road / Madrid
11 February 2025	Ptarmigan	3	Walking/Running	Windy Road / Madrid
13 February 2025	Arctic hare	1	Running	Roberts Bay
13 February 2025	Red fox	1	Running	Windy Road / Madrid
17 February 2025	Red fox	1	Walking	Windy Road / Madrid
18 February 2025	Moose	1	Walking	Doris Area
18 February 2025	Ptarmigan	25	Walking	Doris Area
19 February 2025	Ptarmigan	30	Walking	Windy Road / Madrid
21 February 2025	Caribou	3	Walking	Windy Road / Madrid
22 February 2025	Caribou	2	Grazing	Windy Road / Madrid
22 February 2025	Caribou	10	Grazing	Windy Road / Madrid
27 February 2025	Caribou	2	Walking	Windy Road / Madrid
27 February 2025	Ptarmigan	Unk	Sitting	Windy Road / Madrid
1 March 2025	Red fox	1	Walking	Windy Road / Madrid
1 March 2025	Fox	1	Running	Windy Road / Madrid
4 March 2025	Caribou	7	Foraging	Windy Road / Madrid
4 March 2025	American Robin	2	Flying	Windy Road / Madrid
7 March 2025	Wolverine	1	Running	Windy Road / Madrid
7 March 2025	Raven	2	Flying	Doris Area
8 March 2025	Fox	1	Sitting	Windy Road / Madrid
8 March 2025	Ptarmigan	35	Flying/Feeding/Walking	Windy Road / Madrid
13 March 2025	Arctic fox	1	Walking	Doris Area
15 March 2025	Willow Ptarmigan	6	Travelling	Doris Area
16 March 2025	Common Raven	1	Resting	Doris Area
16 March 2025	Yellow-billed Loon	3	Travelling	Naartok

Date	Species Name	Count	Activity	General Location
17 March 2025	Red fox	1	Foraging	Windy Road / Madrid
17 March 2025	Red fox	1	Foraging	Naartok
17 March 2025	Bald Eagle	2	Flying	Roberts Bay
19 March 2025	Cross fox	1	Travelling	Doris Area
21 March 2025	Caribou	9	Foraging	TLR/TIA Area
22 March 2025	Moose	1	Feeding	TLR/TIA Area
22 March 2025	Common Raven	2	Flying	Doris Area
22 March 2025	Caribou	9	Foraging	Windy Road / Madrid
22 March 2025	Caribou	20	Foraging	Windy Road / Madrid
23 March 2025	Red fox	3	Feeding	Naartok
23 March 2025	Peregrine Falcon	3	Flying	Doris Area
23 March 2025	Willow Ptarmigan	10	Flying/Travelling/Resting	Doris Area
23 March 2025	Willow Ptarmigan	15	Resting	Doris Area
24 March 2025	Cross fox	1	Travelling	Doris Area
25 March 2025	Moose	1	Feeding	Roberts Bay
25 March 2025	Whooping Crane	3	Flying	TLR/TIA Area
25 March 2025	Willow Ptarmigan	5	Feeding	Naartok
26 March 2025	Willow Ptarmigan	15	Foraging	Windy Road / Madrid
26 March 2025	Cross fox	1	Resting	Doris Area
29 March 2025	Ptarmigan	25	Walking/Sitting	Naartok
29 March 2025	Red fox	1	Travelling	Windy Road / Madrid
30 March 2025	Willow Ptarmigan	20	Flying/Feeding/Resting	Windy Road / Madrid
30 March 2025	Red fox	1	Foraging	Windy Road / Madrid
30 March 2025	Willow Ptarmigan	5	Travelling	Windy Road / Madrid
31 March 2025	Willow Ptarmigan	30	Resting	Doris Area
31 March 2025	Red fox	1	Feeding	Doris Area
31 March 2025	Willow Ptarmigan	23	Resting	Doris Area
31 March 2025	Caribou	6	Feeding	Windy Road / Madrid
31 March 2025	Caribou	9	Foraging	Windy Road / Madrid
31 March 2025	Caribou	9	Travelling	Windy Road / Madrid
1 April 2025	Caribou	2	Feeding	Windy Road / Madrid
2 April 2025	Arctic ground squirrel (aka sik sik)	2	Travelling	Doris Area
2 April 2025	Red fox	1	Foraging	Doris Area
2 April 2025	Willow Ptarmigan	50	Feeding/Foraging/Resting	Naartok
2 April 2025	Red fox	1	Travelling	Windy Road / Madrid
3 April 2025	Arctic hare	2	Travelling	Roberts Bay
3 April 2025	Willow Ptarmigan	15	Resting	Doris Area
3 April 2025	Red fox	1	Feeding	Roberts Bay
3 April 2025	Cross fox	1	Travelling	Windy Road / Madrid
4 April 2025	Cross fox	2	Feeding	Windy Road / Madrid
4 April 2025	Willow Ptarmigan	10	Flying	Doris Area
5 April 2025	Red fox	1	Feeding	TLR/TIA Area
7 April 2025	Golden Eagle	1	Flying	Doris Area
8 April 2025	Willow Ptarmigan	1	Travelling	Doris Area
8 April 2025	Willow Ptarmigan	50	Flying/Foraging	Doris Area
8 April 2025	Willow Ptarmigan	5	Foraging	Doris Area
9 April 2025	Arctic hare	1	Resting	Doris Area
10 April 2025	Willow Ptarmigan	25	Foraging	Naartok
10 April 2025	Arctic hare	2	Travelling	Doris Area
11 April 2025	Arctic hare	1	Resting	Doris Area
12 April 2025	Cross fox	1	Foraging	Windy Road / Madrid
12 April 2025	Willow Ptarmigan	50	Foraging	Doris Area
14 April 2025	Willow Ptarmigan	35	Foraging	Naartok
17 April 2025	Willow Ptarmigan	1	Travelling	Doris Area
17 April 2025	Willow Ptarmigan	1	Travelling	Doris Area

Date	Species Name	Count	Activity	General Location
18 April 2025	Red fox	1	Resting	Windy Road / Madrid
19 April 2025	Willow Ptarmigan	6	Foraging	Windy Road / Madrid
19 April 2025	Willow Ptarmigan	12	Resting	Doris Area
20 April 2025	Willow Ptarmigan	10	Resting	Doris Area
21 April 2025	Willow Ptarmigan	23	Resting	Doris Area
21 April 2025	Arctic hare	1	Feeding	Doris Area
23 April 2025	Snow Bunting	1	Flying	Roberts Bay
25 April 2025	Willow Ptarmigan	10	Resting	Naartok
25 April 2025	Arctic hare	2	Resting	Naartok
27 April 2025	Caribou	2	Resting	Roberts Bay
27 April 2025	Cross fox	1	Travelling	Windy Road / Madrid
28 April 2025	Golden Eagle	2	Resting	Windy Road / Madrid
28 April 2025	Willow Ptarmigan	20	Foraging	Doris Area
28 April 2025	Caribou	8	Travelling	Doris Area
1 May 2025	Caribou	7	Feeding	Roberts Bay
1 May 2025	Willow Ptarmigan	7	Foraging	Windy Road / Madrid
1 May 2025	Cross fox	1	Resting	Windy Road / Madrid
2 May 2025	Bearded seal	1	Resting	Roberts Bay
2 May 2025	Wolverine	1	Travelling	Windy Road / Madrid
2 May 2025	Golden Eagle	1	Resting	Windy Road / Madrid
3 May 2025	Cross fox	1	Travelling	Windy Road / Madrid
4 May 2025	Caribou	9	Foraging	TLR/TIA Area
4 May 2025	Caribou	10	Feeding	TLR/TIA Area
5 May 2025	Willow Ptarmigan	15	Travelling	Windy Road / Madrid
5 May 2025	Peregrine Falcon	1	Flying	Naartok
5 May 2025	Red fox	1	Travelling	Windy Road / Madrid
5 May 2025	Willow Ptarmigan	15	Travelling/Resting/Foraging/Flying	Doris Area
5 May 2025	Golden Eagle	1	Flying	TLR/TIA Area
5 May 2025	Caribou	9	Feeding	Windy Road / Madrid
7 May 2025	Caribou	10	Travelling	TLR/TIA Area
8 May 2025	Cross fox	1	Travelling	Windy Road / Madrid
8 May 2025	Cross fox	1	Travelling	Windy Road / Madrid
10 May 2025	Fox	1	Sitting	Windy Road / Madrid
10 May 2025	Caribou	1	Foraging	Windy Road / Madrid
10 May 2025	Arctic hare	1	Travelling	Doris Area
10 May 2025	Cross fox	1	Resting	Windy Road / Madrid
10 May 2025	Caribou	11	Foraging	Windy Road / Madrid
11 May 2025	Caribou	2	Foraging	Windy Road / Madrid
11 May 2025	Caribou	2	Resting	Windy Road / Madrid
12 May 2025	Arctic hare	1	Travelling	Doris Area
12 May 2025	Caribou	2	Foraging	Windy Road / Madrid
12 May 2025	Cross fox	1	Foraging	Doris Area
12 May 2025	Caribou	2	Feeding	Doris Area
13 May 2025	Sandhill Crane	3	Flying	Windy Road / Madrid
13 May 2025	Snow Goose	40	Flying	Windy Road / Madrid
13 May 2025	Sandhill Crane	2	Foraging	Windy Road / Madrid
13 May 2025	Sandhill Crane	2	Flying	Windy Road / Madrid
13 May 2025	Caribou	8	Foraging	TLR/TIA Area
13 May 2025	Arctic ground squirrel (aka sik sik)	2	Foraging	Doris Area
13 May 2025	Canada Goose	2	Feeding	Doris Area
13 May 2025	Sandhill Crane	3	Flying/Resting	Windy Road / Madrid
13 May 2025	Peregrine Falcon	1	Resting	Windy Road / Madrid
14 May 2025	Sandhill Crane	2	Feeding	Windy Road / Madrid
14 May 2025	Cross fox	1	Travelling	Doris Area

Date	Species Name	Count	Activity	General Location
15 May 2025	Grizzly bear	1	Walking	Doris Area
15 May 2025	Caribou	11	Foraging	Doris Area
16 May 2025	Caribou	2	Foraging	Windy Road / Madrid
16 May 2025	Cross fox	1	Foraging	Windy Road / Madrid
17 May 2025	Caribou	7	Feeding	Windy Road / Madrid
17 May 2025	Rough-legged Hawk	1	Resting	Windy Road / Madrid
17 May 2025	Cross fox	1	Travelling	Windy Road / Madrid
18 May 2025	Rough-legged Hawk	1	Flying	Windy Road / Madrid
19 May 2025	Arctic ground squirrel (aka sik sik)	1	Travelling	Doris Area
19 May 2025	Red fox	1	Travelling	Doris Area
20 May 2025	Arctic hare	1	Resting	Doris Area
20 May 2025	Cross fox	1	Foraging	Windy Road / Madrid
20 May 2025	Rough-legged Hawk	1	Resting	Windy Road / Madrid
20 May 2025	Golden Eagle	1	Flying	TLR/TIA Area
20 May 2025	Caribou	6	Resting	Windy Road / Madrid
20 May 2025	Gyrfalcon	1	Flying	Windy Road / Madrid
21 May 2025	Fox	1	Walking	Windy Road / Madrid
21 May 2025	Caribou	2	Resting	Windy Road / Madrid
21 May 2025	Cross fox	1	Travelling	Windy Road / Madrid
21 May 2025	Sandhill Crane	8	Resting/Foraging	Windy Road / Madrid
21 May 2025	Caribou	6	Foraging	Windy Road / Madrid
22 May 2025	Caribou	6	Travelling	TLR/TIA Area
24 May 2025	Arctic hare	1	Resting	Doris Area
26 May 2025	Cross fox	1	Travelling	Windy Road / Madrid
26 May 2025	Red fox	1	Travelling	Windy Road / Madrid
26 May 2025	Arctic hare	1	Travelling	Windy Road / Madrid
27 May 2025	Red fox	1	Travelling	TLR/TIA Area
27 May 2025	Cross fox	1	Feeding	Windy Road / Madrid
27 May 2025	Red fox	1	Travelling	Windy Road / Madrid
1 June 2025	Grizzly bear	3	Travelling	Doris Area
1 June 2025	Willow Ptarmigan	2	Foraging	Roberts Bay
1 June 2025	Snow Goose	4	Flying	Doris Area
2 June 2025	Jaeger	4	Travelling	Naartok
2 June 2025	Golden Eagle	2	Flying	Windy Road / Madrid
3 June 2025	Caribou	7	Feeding	Windy Road / Madrid
4 June 2025	Canada Goose	2	Resting	Windy Road / Madrid
4 June 2025	Sandhill Crane	3	Feeding/Foraging/Travelling	TLR/TIA Area
5 June 2025	Caribou	5	Foraging	Windy Road / Madrid
5 June 2025	Peregrine Falcon	2	Flying	Windy Road / Madrid
5 June 2025	Peregrine Falcon	2	Flying	Windy Road / Madrid
5 June 2025	Sandhill Crane	1	Flying	Windy Road / Madrid
6 June 2025	Peregrine Falcon	2	Flying	Windy Road / Madrid
7 June 2025	Caribou	2	Foraging	Doris Area
7 June 2025	Caribou	1	Travelling	Windy Road / Madrid
7 June 2025	Caribou	1	Foraging	Windy Road / Madrid
7 June 2025	Arctic ground squirrel (aka sik sik)	1	Resting	Windy Road / Madrid
8 June 2025	Caribou	4	Resting	Windy Road / Madrid
8 June 2025	Canada Goose	1	Resting	Windy Road / Madrid
8 June 2025	Sandhill Crane	2	Foraging	Naartok
9 June 2025	Sandhill Crane	2	Foraging	Windy Road / Madrid
9 June 2025	Caribou	3	Foraging	Windy Road / Madrid
10 June 2025	Caribou	8	Foraging	TLR/TIA Area
11 June 2025	Golden Eagle	1	Flying	Windy Road / Madrid
11 June 2025	Golden Eagle	1	Resting	Doris Area
11 June 2025	Sandhill Crane	1	Foraging	Doris Area

Date	Species Name	Count	Activity	General Location
12 June 2025	Red-throated Loon	2	Feeding	TLR/TIA Area
12 June 2025	Horned Lark	2	Resting	TLR/TIA Area
12 June 2025	Caribou	1	Feeding	TLR/TIA Area
13 June 2025	Canada Goose	1	Resting	Windy Road / Madrid
13 June 2025	Cackling Goose	2	Resting	Windy Road / Madrid
13 June 2025	Cross fox	1	Travelling	Doris Area
13 June 2025	Common Raven	1	Feeding	Doris Area
14 June 2025	Grizzly bear	3	Travelling	Naartok
14 June 2025	Grizzly bear	3	Feeding	Naartok
14 June 2025	Canada Goose	18	Flying	Windy Road / Madrid
14 June 2025	Herring Gull	1	Flying	Windy Road / Madrid
15 June 2025	Willow Ptarmigan	5	Resting	Doris Area
15 June 2025	Moose	1	Travelling	Roberts Bay
15 June 2025	Arctic ground squirrel (aka sik sik)	2	Foraging	Boston Area
15 June 2025	Willow Ptarmigan	3	Resting	Boston Area
15 June 2025	Bald Eagle	1	Flying	Boston Area
15 June 2025	Surf Scoter	8	Flying	Boston Area
15 June 2025	Savannah Sparrow	2	Feeding	TLR/TIA Area
15 June 2025	Lapland Longspur	1	Travelling	TLR/TIA Area
15 June 2025	Arctic hare	1	Travelling	Doris Area
16 June 2025	Grizzly bear	3	Foraging	Windy Road / Madrid
16 June 2025	Bald Eagle	1	Flying	Boston Area
16 June 2025	Canada Goose	8	Flying	Boston Area
16 June 2025	Yellow-billed Loon	1	Swimming	Boston Area
16 June 2025	Common Eider	1	Flying	Boston Area
16 June 2025	Willow Ptarmigan	1	Resting	Boston Area
16 June 2025	Cross fox	1	Travelling	TLR/TIA Area
16 June 2025	Canada Goose	5	Swimming	TLR/TIA Area
16 June 2025	Trumpeter Swan	1	Swimming	TLR/TIA Area
16 June 2025	Northern Pintail	5	Swimming	Windy Road / Madrid
17 June 2025	Shorebird species	3	Flying	TLR/TIA Area
17 June 2025	Trumpeter Swan	1	Flying	TLR/TIA Area
17 June 2025	Greater White-fronted Goose	2	Resting	Windy Road / Madrid
20 June 2025	Arctic hare	1	Resting	Doris Area
20 June 2025	Arctic hare	1	Resting	Doris Area
20 June 2025	Muskox	20	Feeding	Windy Road / Madrid
21 June 2025	Caribou	10	Feeding	Windy Road / Madrid
21 June 2025	American Tree Sparrow	2	Flying	Doris Area
23 June 2025	Caribou	2	Travelling	Windy Road / Madrid
23 June 2025	Shorebird species	2	Flying	TLR/TIA Area
24 June 2025	Caribou	3	Feeding	TLR/TIA Area
25 June 2025	Caribou	6	Foraging	Doris Area
25 June 2025	Greater White-fronted Goose	5	Foraging	Windy Road / Madrid
25 June 2025	Muskox	1	Feeding	Boston Area
27 June 2025	Shorebird species	1	Resting	Roberts Bay
27 June 2025	Shorebird species	1	Resting	Roberts Bay
27 June 2025	Caribou	1	Foraging	Windy Road / Madrid
27 June 2025	Caribou	2	Feeding	Boston Area
28 June 2025	Grizzly bear	3	Travelling	Doris Area
28 June 2025	Caribou	2	Travelling	Boston Area
29 June 2025	Cross fox	4	Travelling	Windy Road / Madrid
29 June 2025	Caribou	2	Foraging	Doris Area
29 June 2025	Cross fox	1	Travelling	Windy Road / Madrid
30 June 2025	Caribou	2	Foraging	Windy Road / Madrid
30 June 2025	Caribou	7	Feeding	Boston Area

Date	Species Name	Count	Activity	General Location
1 July 2025	Caribou	3	Foraging	Roberts Bay
1 July 2025	Cackling Goose	30	Resting	Windy Road / Madrid
1 July 2025	Sandhill Crane	2	Resting	Windy Road / Madrid
1 July 2025	Caribou	2	Feeding	Windy Road / Madrid
1 July 2025	Caribou	5	Travelling	Boston Area
3 July 2025	Red fox	1	Foraging	Doris Area
3 July 2025	Caribou	2	Resting	TLR/TIA Area
4 July 2025	Caribou	3	Resting	TLR/TIA Area
4 July 2025	Caribou	1	Foraging	Windy Road / Madrid
5 July 2025	Red fox	1	Travelling	Doris Area
5 July 2025	Cross fox	1	Travelling	Doris Area
5 July 2025	Caribou	2	Resting	TLR/TIA Area
6 July 2025	Caribou	2	Resting	TLR/TIA Area
6 July 2025	Caribou	2	Resting	Doris Area
7 July 2025	Cross fox	1	Travelling	Doris Area
7 July 2025	Caribou	1	Travelling	Windy Road / Madrid
7 July 2025	Caribou	7	Travelling	Roberts Bay
7 July 2025	Caribou	1	Travelling	Doris Area
7 July 2025	Caribou	5	Travelling	Doris Area
7 July 2025	Caribou	5	Travelling	Doris Area
8 July 2025	Caribou	4	Travelling	TLR/TIA Area
9 July 2025	Caribou	1	Resting	TLR/TIA Area
9 July 2025	Caribou	2	Travelling	Windy Road / Madrid
9 July 2025	Caribou	2	Travelling	Windy Road / Madrid
11 July 2025	Red fox	3	Foraging	Windy Road / Madrid
11 July 2025	Caribou	1	Travelling	Doris Area
11 July 2025	Grizzly bear	3	Foraging	TLR/TIA Area
11 July 2025	Peregrine Falcon	1	Flying	TLR/TIA Area
12 July 2025	Caribou	3	Feeding	Windy Road / Madrid
12 July 2025	Caribou	3	Feeding	Windy Road / Madrid
14 July 2025	Grizzly bear	3	Travelling	Windy Road / Madrid
14 July 2025	Tundra Swan	2	Flying	Windy Road / Madrid
14 July 2025	Bald Eagle	1	Flying	Boston Area
15 July 2025	Arctic wolf	1	Travelling	Boston Area
15 July 2025	Caribou	1	Feeding	Boston Area
15 July 2025	American Pipit	Unk	Travelling	TLR/TIA Area
16 July 2025	Caribou	1	Feeding	Doris Area
17 July 2025	Caribou	3	Travelling	Doris Area
17 July 2025	Caribou	6	Travelling	Doris Area
17 July 2025	Caribou	1	Resting	Doris Area
17 July 2025	Caribou	5	Travelling	Doris Area
17 July 2025	Greater White-fronted Goose	10	Swimming	Windy Road / Madrid
17 July 2025	Caribou	3	Travelling	Doris Area
17 July 2025	Caribou	1	Travelling	Windy Road / Madrid
18 July 2025	Caribou	4	Travelling	Doris Area
18 July 2025	Caribou	1	Resting	Windy Road / Madrid
18 July 2025	Cross fox	1	Travelling	Doris Area
19 July 2025	Unknown	2	Resting	Doris Area
19 July 2025	Cross fox	1	Travelling	Doris Area
20 July 2025	Cross fox	2	Travelling	TLR/TIA Area
20 July 2025	Red fox	1	Travelling	Doris Area
20 July 2025	Cross fox	4	Travelling	Doris Area
20 July 2025	Caribou	2	Travelling	Windy Road / Madrid
20 July 2025	Arctic ground squirrel (aka sik sik)	1	Foraging	Windy Road / Madrid

Date	Species Name	Count	Activity	General Location
21 July 2025	Grizzly bear	3	Travelling	Windy Road / Madrid
21 July 2025	Sandhill Crane	3	Travelling	Windy Road / Madrid
21 July 2025	Grizzly bear	3	Foraging	Doris Area
22 July 2025	Grizzly bear	2	Foraging	TLR/TIA Area
22 July 2025	Grizzly bear	1	Travelling	Roberts Bay
22 July 2025	Muskox	1	Foraging	Windy Road / Madrid
23 July 2025	Grizzly bear	3	Foraging	TLR/TIA Area
24 July 2025	Red fox	5	Resting	Windy Road / Madrid
24 July 2025	Caribou	5	Feeding	Doris Area
24 July 2025	Caribou	1	Travelling	Windy Road / Madrid
24 July 2025	Peregrine Falcon	1	Flying	Doris Area
24 July 2025	Arctic hare	1	Feeding	Naartok
25 July 2025	Grizzly bear	3	Foraging	Windy Road / Madrid
25 July 2025	Cross fox	1	Travelling	Doris Area
25 July 2025	Grizzly bear	3	Travelling	Roberts Bay
25 July 2025	Short-eared Owl	1	Feeding/Flying	Doris Area
26 July 2025	Arctic hare	1	Resting	Doris Area
27 July 2025	Gyrfalcon	2	Flying	Boston Area
27 July 2025	Cross fox	3	Foraging	Doris Area
27 July 2025	Grizzly bear	1	Travelling	Roberts Bay
27 July 2025	Caribou	2	Foraging	Roberts Bay
27 July 2025	Caribou	1	Foraging	Doris Area
28 July 2025	Cross fox	3	Travelling	TLR/TIA Area
28 July 2025	Sandhill Crane	2	Travelling	Windy Road / Madrid
28 July 2025	Caribou	4	Foraging	Doris Area
29 July 2025	Unknown	1	Travelling	Doris Area
29 July 2025	Arctic hare	1	Travelling	Doris Area
29 July 2025	Caribou	4	Travelling	Doris Area
29 July 2025	Caribou	1	Travelling	Doris Area
29 July 2025	Grizzly bear	3	Foraging	Doris Area
29 July 2025	Caribou	2	Travelling	Doris Area
29 July 2025	Arctic hare	1	Travelling	Doris Area
29 July 2025	Caribou	2	Travelling	Doris Area
29 July 2025	Arctic hare	1	Travelling	Doris Area
30 July 2025	Red fox	1	Travelling	Windy Road / Madrid
30 July 2025	Caribou	1	Travelling	Doris Area
30 July 2025	Caribou	1	Travelling	Doris Area
30 July 2025	Arctic hare	1	Travelling	Doris Area
30 July 2025	Caribou	1	Travelling	Doris Area
30 July 2025	Arctic hare	1	Travelling	Doris Area
1 August 2025	Muskox	1	Feeding	Roberts Bay
1 August 2025	Muskox	1	Feeding	Roberts Bay
2 August 2025	Sandhill Crane	2	Travelling/Foraging	Windy Road / Madrid
2 August 2025	Red fox	1	Travelling	Roberts Bay
2 August 2025	Yellow-billed Loon	1	Swimming	Roberts Bay
3 August 2025	Red fox	2	Foraging	Naartok
3 August 2025	Unknown	2	Foraging	Windy Road / Madrid
3 August 2025	Caribou	1	Travelling	Doris Area
3 August 2025	Caribou	4	Resting	Doris Area
3 August 2025	Caribou	1	Resting	TLR/TIA Area
3 August 2025	Muskox	15	Resting	Boston Area
4 August 2025	Caribou	3	Resting	Doris Area
4 August 2025	Caribou	6	Resting	Doris Area
4 August 2025	Caribou	3	Travelling	Windy Road / Madrid

Date	Species Name	Count	Activity	General Location
4 August 2025	Canada Goose	41	Foraging	Doris Area
4 August 2025	Greater White-fronted Goose	5	Foraging	Doris Area
5 August 2025	Grizzly bear	3	Feeding	Roberts Bay
5 August 2025	Red-throated Loon	3	Swimming	Doris Area
6 August 2025	Cackling Goose	36	Travelling	Windy Road / Madrid
8 August 2025	Seal species	1	Resting	Roberts Bay
12 August 2025	Muskox	1	Travelling	Windy Road / Madrid
12 August 2025	Cross fox	1	Feeding	Doris Area
13 August 2025	Arctic hare	1	Travelling	Doris Area
13 August 2025	Caribou	7	Resting	Doris Area
13 August 2025	Caribou	8	Resting	Doris Area
13 August 2025	Arctic wolf	1	Travelling	Boston Area
14 August 2025	Grizzly bear	3	Travelling	Roberts Bay
14 August 2025	Red fox	1	Resting	Roberts Bay
14 August 2025	Canada Goose	30	Resting	Windy Road / Madrid
14 August 2025	Sandhill Crane	15	Resting	Windy Road / Madrid
15 August 2025	Grizzly bear	3	Foraging	TLR/TIA Area
15 August 2025	Grizzly bear	3	Travelling	Doris Area
15 August 2025	Caribou	1	Resting	Doris Area
15 August 2025	Caribou	2	Travelling	Doris Area
15 August 2025	Cross fox	1	Resting	Doris Area
20 August 2025	Canada Goose	100	Not Specified	Roberts Bay
21 August 2025	Greater White-fronted Goose	15	Feeding/Resting	Windy Road / Madrid
23 August 2025	Grizzly bear	3	Foraging	Roberts Bay
23 August 2025	Caribou	3	Resting	Doris Area
23 August 2025	Sandhill Crane	4	Feeding	Windy Road / Madrid
24 August 2025	Caribou	1	Feeding	Roberts Bay
24 August 2025	Arctic ground squirrel (aka sik sik)	1	Foraging	Doris Area
24 August 2025	Caribou	1	Feeding	Windy Road / Madrid
26 August 2025	Common Merganser	15	Not Specified	Roberts Bay
26 August 2025	Bald Eagle	1	Not Specified	Windy Road / Madrid
27 August 2025	Caribou	1	Travelling	Doris Area
27 August 2025	Caribou	1	Not Specified	Windy Road / Madrid
27 August 2025	Greater White-fronted Goose	10	Not Specified	Windy Road / Madrid
27 August 2025	Sandhill Crane	2	Not Specified	TLR/TIA Area
28 August 2025	Caribou	1	Feeding	Windy Road / Madrid
28 August 2025	Cackling Goose	50	Not Specified	Windy Road / Madrid
29 August 2025	Common Raven	1	Not Specified	Doris Area
29 August 2025	Greater White-fronted Goose	20	Not Specified	Windy Road / Madrid
30 August 2025	Grizzly bear	1	Foraging	Doris Area
31 August 2025	Grizzly bear	1	Travelling	Naartok
31 August 2025	Grizzly bear	1	Foraging	Doris Area
31 August 2025	Red fox	1	Travelling	Windy Road / Madrid
5 September 2025	Weasel	1	Travelling	TLR/TIA Area
5 September 2025	Peregrine Falcon	2	Not Specified	TLR/TIA Area
5 September 2025	Unknown	1	Travelling	Doris Area
8 September 2025	Arctic wolf	1	Travelling	Roberts Bay
9 September 2025	Sandhill Crane	4	Not Specified	Windy Road / Madrid
9 September 2025	Grizzly bear	1	Foraging	Doris Area
9 September 2025	Cross fox	1	Travelling	Windy Road / Madrid
9 September 2025	Caribou	1	Resting	Windy Road / Madrid
10 September 2025	Red fox	1	Foraging	TLR/TIA Area
11 September 2025	Sandhill Crane	6	Not Specified	Windy Road / Madrid
14 September 2025	Grizzly bear	1	Feeding	Windy Road / Madrid
14 September 2025	Short-eared Owl	1	Not Specified	Doris Area

Date	Species Name	Count	Activity	General Location
19 September 2025	Tundra Swan	2	Not Specified	TLR/TIA Area
23 September 2025	Muskox	30	Resting	Windy Road / Madrid
25 September 2025	Arctic wolf	1	Travelling	Doris Area
25 September 2025	Red fox	1	Travelling	Windy Road / Madrid
28 September 2025	Grizzly bear	1	Foraging	Doris Area
28 September 2025	Grizzly bear	1	Travelling	Windy Road / Madrid
29 September 2025	Grizzly bear	1	Travelling	Windy Road / Madrid
29 September 2025	Arctic wolf	1	Travelling	TLR/TIA Area
29 September 2025	Grizzly bear	1	Travelling	Windy Road / Madrid
29 September 2025	Seal species	2	Swimming	Roberts Bay
30 September 2025	Grizzly bear	1	Foraging	Naartok
30 September 2025	Grizzly bear	1	Travelling	Naartok
3 October 2025	Willow Ptarmigan	30	Not Specified	Doris Area
4 October 2025	Grizzly bear	1	Foraging	Doris Area
5 October 2025	Grizzly bear	1	Foraging	Doris Area
6 October 2025	Grizzly bear	1	Foraging	Roberts Bay
6 October 2025	Arctic ground squirrel (aka sik sik)	1	Travelling	TLR/TIA Area
6 October 2025	Grizzly bear	1	Foraging	Doris Area
6 October 2025	Arctic hare	1	Resting	Doris Area
6 October 2025	Arctic ground squirrel (aka sik sik)	1	Not Specified	TLR/TIA Area
7 October 2025	Muskox	10	Feeding	Roberts Bay
7 October 2025	Grizzly bear	1	Foraging	TLR/TIA Area
7 October 2025	Red fox	1	Travelling	TLR/TIA Area
7 October 2025	Grizzly bear	1	Foraging	TLR/TIA Area
7 October 2025	Snow Bunting	10	Not Specified	Windy Road / Madrid
7 October 2025	Grizzly bear	1	Resting	Doris Area
9 October 2025	Weasel	1	Travelling	Naartok
9 October 2025	Snow Bunting	10	Not Specified	Windy Road / Madrid
9 October 2025	Muskox	10	Foraging	Doris Area
9 October 2025	Rough-legged Hawk	1	Not Specified	Windy Road / Madrid
10 October 2025	Muskox	34	Foraging	Doris Area
10 October 2025	Rough-legged Hawk	1	Not Specified	Doris Area
11 October 2025	Grizzly bear	1	Travelling	Windy Road / Madrid
11 October 2025	Arctic hare	1	Resting	Doris Area
12 October 2025	Muskox	30	Foraging	Windy Road / Madrid
14 October 2025	Caribou	5	Travelling	TLR/TIA Area
14 October 2025	Arctic hare	1	Resting	Doris Area
17 October 2025	Canada Goose	1	Not Specified	TLR/TIA Area
17 October 2025	Tundra Swan	1	Not Specified	TLR/TIA Area
19 October 2025	Grizzly bear	1	Feeding	Doris Area
19 October 2025	Arctic hare	1	Resting	Doris Area
20 October 2025	Willow Ptarmigan	8	Not Specified	Doris Area
20 October 2025	Weasel	1	Foraging	Doris Area
23 October 2025	Snowy Owl	2	Not Specified	TLR/TIA Area
30 October 2025	Seal species	7	Resting	Roberts Bay
31 October 2025	Cross fox	1	Travelling	Windy Road / Madrid
31 October 2025	Seal species	8	Resting	Roberts Bay
1 November 2025	Cross fox	1	Travelling	Windy Road / Madrid
1 November 2025	Red fox	1	Travelling	Windy Road / Madrid
7 November 2025	Red fox	1	Travelling	Doris Area
7 November 2025	Red fox	1	Foraging	Doris Area
8 November 2025	Red fox	1	Foraging	Doris Area
8 November 2025	Cross fox	1	Travelling	Doris Area
8 November 2025	Common Raven	1	Not Specified	Doris Area
9 November 2025	Cross fox	1	Travelling	Windy Road / Madrid

Date	Species Name	Count	Activity	General Location
10 November 2025	Red fox	1	Travelling	Doris Area
10 November 2025	Red fox	1	Travelling	Doris Area
10 November 2025	Red fox	1	Travelling	Naartok
10 November 2025	Wolverine	1	Travelling	Windy Road / Madrid
10 November 2025	Cross fox	1	Resting	Doris Area
11 November 2025	Cross fox	2	Feeding	Doris Area
15 November 2025	Cross fox	1	Travelling	Doris Area
16 November 2025	Cross fox	1	Travelling	Doris Area
18 November 2025	Red fox	1	Foraging	Doris Area
18 November 2025	Red fox	1	Travelling	Windy Road / Madrid
18 November 2025	Red fox	1	Travelling	Doris Area
18 November 2025	Cross fox	1	Travelling	Doris Area
19 November 2025	Red fox	1	Feeding	Windy Road / Madrid
19 November 2025	Red fox	1	Foraging	Doris Area
20 November 2025	Arctic fox	1	Feeding	Windy Road / Madrid
21 November 2025	Red fox	1	Travelling	Doris Area
21 November 2025	Cross fox	1	Travelling	Windy Road / Madrid
24 November 2025	Red fox	1	Travelling	Windy Road / Madrid
26 November 2025	Cross fox	1	Travelling	Windy Road / Madrid
27 November 2025	Muskox	20	Foraging	Roberts Bay
27 November 2025	Muskox	30	Feeding	Roberts Bay
27 November 2025	Red fox	1	Foraging	Doris Area
4 December 2025	Red fox	1	Travelling	Windy Road / Madrid
5 December 2025	Arctic hare	1	Travelling	Doris Area
7 December 2025	Muskox	30	Resting	Windy Road / Madrid
14 December 2025	Red fox	1	Travelling	Doris Area
18 December 2025	Cross fox	1	Travelling	Windy Road / Madrid
18 December 2025	Cross fox	1	Travelling	Doris Area
23 December 2025	Muskox	3	Travelling	Windy Road / Madrid
23 December 2025	Muskox	30	Resting	Doris Area
24 December 2025	Red fox	1	Travelling	Doris Area
24 December 2025	Muskox	30	Foraging	Doris Area
28 December 2025	Muskox	30	Foraging	Windy Road / Madrid
29 December 2025	Muskox	6	Travelling	Windy Road / Madrid
30 December 2025	Muskox	30	Feeding	Windy Road / Madrid
31 December 2025	Muskox	20	Resting	Windy Road / Madrid

# APPENDIX I      SUMMARY OF WILDLIFE RECORDED INCIDENTALLY BY BIOLOGISTS, 2025



## APPENDIX I: SUMMARY OF WILDLIFE RECORDED INCIDENTALLY BY BIOLOGISTS, 2025

Species Group	Common Name	Scientific Name	Total Number of Observations
Upland Birds	American Pipit	<i>Anthus rubescens</i>	3
	Horned Lark	<i>Eremophila alpestris</i>	1
	Snow Bunting	<i>Plectrophenax nivalis</i>	5
	Willow Ptarmigan	<i>Lagopus lagopus</i>	2
Waterbirds	Cackling Goose	<i>Branta hutchinsii</i>	32
	Canada Goose	<i>Branta canadensis</i>	65
	Sandhill Crane	<i>Grus canadensis</i>	3
	White-fronted Goose	<i>Anser albifrons</i>	3
Raptors	Common Kestrel	<i>Falco tinnunculus</i>	1
	Peregrine Falcon	<i>Falco peregrinus</i>	1
	Rough-legged Hawk	<i>Buteo lagopus</i>	4
Mammals	Arctic ground squirrel (sik sik)	<i>Urocitellus parryii</i>	5
	Caribou*	<i>Rangifer tarandus</i>	1

Note:

\* Indicates a species of conservation concern.

# APPENDIX J      MONTHLY AVERAGE OF PERSONNEL ON-SITE, 2009 TO 2025



## APPENDIX J: MONTHLY AVERAGE OF PERSONNEL ONSITE, 2009 TO 2025

The following table provides the daily average of personnel onsite per month.

Month	Year																
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
January	69	83	214	183	0	7	13	60	172	202	265	316	140	123	148	83	165
February	84	106	250	193	0	7	16	73	168	239	279	332	143	178	168	104	207
March	94	131	265	180	3	8	30	78	176	261	286	282	147	160	165	108	206
April	102	172	278	127	13	14	28	93	173	264	291	133	169	134	163	113	222
May	102	182	274	90	20	63	32	110	188	261	287	130	176	135	158	133	255
June	103	200	280	103	44	71	41	123	189	266	304	139	189	162	150	161	262
July	113	220	284	90	61	77	46	123	185	265	304	137	193	164	146	147	270
August	109	205	277	93	59	79	84	129	178	271	285	136	230	172	133	161	270
September	98	484	277	0	54	73	105	144	179	272	293	128	240	174	126	167	290
October	66	332	270	0	49	79	114	158	179	273	306	133	89	181	109	157	310
November	16	147	252	0	19	44	93	172	184	270	324	149	171	189	64	168	321
December	14	108	0	0	8	7	89	173	179	246	300	143	185	114	45	110	173
<b>Annual Average</b>	<b>81</b>	<b>197</b>	<b>243</b>	<b>88</b>	<b>27</b>	<b>44</b>	<b>58</b>	<b>120</b>	<b>179</b>	<b>258</b>	<b>294</b>	<b>180</b>	<b>173</b>	<b>157</b>	<b>131</b>	<b>134</b>	<b>246</b>

# APPENDIX K      SUMMARY OF CARIBOU CAMERA EVENTS, SEPTEMBER 2024 TO AUGUST 2025



APPENDIX K: SUMMARY OF CARIBOU CAMERA EVENTS, SEPTEMBER 2024 TO AUGUST 2025

Month	Group	Caribou Detections	Active Days
2024-09	Control	6	465
2024-09	Treatment	4	492
2024-09	ZOI	7	464
2024-10	Control	0	419
2024-10	Treatment	1	515
2024-10	ZOI	3	475
2024-11	Control	0	420
2024-11	Treatment	0	473
2024-11	ZOI	0	460
2024-12	Control	0	430
2024-12	Treatment	0	460
2024-12	ZOI	0	465
2025-01	Control	0	434
2025-01	Treatment	1	445
2025-01	ZOI	1	456
2025-02	Control	0	390
2025-02	Treatment	0	362
2025-02	ZOI	5	390
2025-03	Control	0	433
2025-03	Treatment	0	378
2025-03	ZOI	1	403
2025-04	Control	3	401
2025-04	Treatment	2	360
2025-04	ZOI	1	316
2025-05	Control	7	295
2025-05	Treatment	1	317
2025-05	ZOI	5	193
2025-06	Control	1	207
2025-06	Treatment	0	142
2025-06	ZOI	3	90
2025-07	Control	15	306
2025-07	Treatment	60	525
2025-07	ZOI	28	366
2025-08	Control	6	325
2025-08	Treatment	38	541
2025-08	ZOI	15	373

# APPENDIX L CARIBOU OBSERVATIONS FROM THE WILDLIFE SIGHTINGS LOG CORRECTED FOR PERSONNEL, 2009 TO 2025



## APPENDIX L: CARIBOU OBSERVATIONS FROM THE WILDLIFE SIGHTINGS LOG CORRECTED FOR PERSONNEL, 2009 TO 2025

Year	Month	Number of Observations from Raw Data		Daily Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2009	April	141	3	102	1.38	0.03
	May	114	7	102	1.12	0.07
	June	10	2	103	0.1	0.02
	July	21	6	113	0.19	0.05
	September	14	1	98	0.14	0.01
2010	March	1	1	131	0.01	0.01
	April	16	1	172	0.09	0.01
	May	148	16	182	0.81	0.09
	June	1	1	200	0.01	0.01
	July	9	4	220	0.04	0.02
	August	2	2	205	0.01	0.01
2011	April	24	4	278	0.09	0.01
	May	43	5	274	0.16	0.02
	June	9	2	280	0.03	0.01
	July	4	2	284	0.01	0.01
2012	April	7	1	127	0.06	0.01
	May	28	6	90	0.31	0.07
	July	2	2	90	0.02	0.02
	August	1	1	93	0.01	0.01

Year	Month	Number of Observations from Raw Data		Daily Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2013	May	6	2	20	0.3	0.1
	June	4	4	44	0.09	0.09
	July	5	4	61	0.08	0.07
	August	5	4	59	0.08	0.07
2014	April	10	1	14	0.71	0.07
	May	3	1	63	0.05	0.02
	June	11	5	71	0.15	0.07
	July	23	13	77	0.3	0.17
	December	10	1	7	1.43	0.14
2015	February	6	1	16	0.38	0.06
	May	34	3	32	1.06	0.09
	June	9	3	41	0.22	0.07
	July	2	2	46	0.04	0.04
	August	10	7	84	0.12	0.08
	November	44	5	93	0.47	0.05
	December	66	4	89	0.74	0.04
2016	January	29	5	60	0.48	0.08
	February	27	3	73	0.37	0.04
	March	152	9	78	1.95	0.12
	April	51	5	93	0.55	0.05
	May	79	14	110	0.72	0.13
	July	10	9	123	0.08	0.07
	August	1	1	129	0.01	0.01
	November	11	2	172	0.06	0.01
	December	51	6	173	0.29	0.03

Year	Month	Number of Observations from Raw Data		Daily Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2017	March	84	4	176	0.48	0.02
	June	4	4	189	0.02	0.02
	July	12	12	185	0.06	0.06
	August	2	2	178	0.01	0.01
2018	March	80	1	261	0.307	0.004
	May	12	6	261	0.046	0.023
	June	7	2	266	0.026	0.008
	July	14	12	265	0.053	0.045
	August	5	3	271	0.018	0.011
2019	March	2	1	286	0.01	0
	April	12	5	291	0.04	0.02
	May	21	10	287	0.07	0.03
	June	3	2	304	0.01	0.01
	July	2	1	304	0.01	0
	August	6	5	285	0.02	0.02
	December	Unknown	1	300	-	-
2020	January	17	2	316	0.05	0.006
	March	7	1	282	0.03	0.004
	June	17	3	139	0.12	0.02
	July	57	34	137	0.42	0.25
	August	5	5	136	0.04	0.04

Year	Month	Number of Observations from Raw Data		Daily Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2021	February	14	3	143	0.1	0.02
	March	5	1	147	0.03	0.01
	April	5	1	169	0.03	0.01
	May	10	2	176	0.06	0.01
	June	4	1	189	0.02	0.01
	July	83	26	193	0.43	0.13
	August	40	29	230	0.17	0.13
	September	5	3	240	0.02	0.01
2022	April	20	5	134	0.15	0.04
	May	3	1	135	0.02	0.01
	June	35	9	162	0.22	0.06
	July	106	37	164	0.65	0.23
	August	14	13	172	0.08	0.08
	September	10	2	174	0.06	0.01
	October	19	2	181	0.10	0.01
	November	0	0	189	0.00	0.00
	December	26	2	114	0.23	0.02
2023	January	9	1	148	0.06	0.01
	February	7	1	168	0.04	0.01
	April	7	1	163	0.04	0.01
	June	111	33	150	0.74	0.22
	July	142	103	146	0.97	0.71
	August	31	18	133	0.23	0.14

Year	Month	Number of Observations from Raw Data		Daily Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2023 (cont'd)	September	38	13	126	0.30	0.10
	October	2	2	109	0.02	0.02
	December	15	1	45	0.33	0.02
2024	February	7	1	104	0.07	0.01
	March	Unknown	1	108	-	0.01
	April	2	1	113	0.02	0.01
	May	29	7	133	0.22	0.05
	June	201	51	161	1.25	0.32
	July	143	70	147	0.97	0.48
	August	129	85	161	0.80	0.53
	September	5	2	167	0.03	0.01
	October	2	2	157	0.01	0.01
	2025	January	10	2	165	0.06
February		25	8	207	0.12	0.04
March		69	7	206	0.34	0.03
April		12	3	222	0.05	0.01
May		113	19	255	0.44	0.07
June		69	19	262	0.26	0.07
July		110	44	270	0.41	0.16
August		44	16	270	0.16	0.06
September		1	1	290	0.00	0.00
October		5	1	310	0.02	0.00

Note:

<sup>a</sup> The total number of individuals provided may not always be representative of the true number of individuals recorded, as certain wildlife sightings may include double counting of the same individual(s).

# APPENDIX M      SUMMARY OF MUSKOX CAMERA EVENTS, SEPTEMBER 2024 TO AUGUST 2025



APPENDIX M: SUMMARY OF MUSKOX CAMERA EVENTS, SEPTEMBER 2024 TO AUGUST 2025

Month	Group	Muskox Detections	Active Days
2024-09	Control	0	465
2024-09	Treatment	0	492
2024-09	ZOI	0	464
2024-10	Control	0	419
2024-10	Treatment	0	515
2024-10	ZOI	0	475
2024-11	Control	0	420
2024-11	Treatment	0	473
2024-11	ZOI	0	460
2024-12	Control	0	430
2024-12	Treatment	0	460
2024-12	ZOI	0	465
2025-01	Control	0	434
2025-01	Treatment	0	445
2025-01	ZOI	0	456
2025-02	Control	0	390
2025-02	Treatment	0	362
2025-02	ZOI	0	390
2025-03	Control	0	433
2025-03	Treatment	0	378
2025-03	ZOI	0	403
2025-04	Control	0	401
2025-04	Treatment	0	360
2025-04	ZOI	0	316
2025-05	Control	0	295
2025-05	Treatment	0	317
2025-05	ZOI	0	193
2025-06	Control	2	207
2025-06	Treatment	0	142
2025-06	ZOI	0	90
2025-07	Control	0	306
2025-07	Treatment	0	525
2025-07	ZOI	0	366
2025-08	Control	0	325
2025-08	Treatment	0	541
2025-08	ZOI	0	373

# APPENDIX N MUSKOX OBSERVATIONS FROM THE WILDLIFE SIGHTINGS LOG CORRECTED FOR PERSONNEL, 2009 TO 2025



## APPENDIX N: MUSKOX OBSERVATIONS FROM THE WILDLIFE SIGHTINGS LOG CORRECTED FOR PERSONNEL, 2009 TO 2025

Year	Month	Number of Observations from Raw Data		Monthly Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2009	July	-	-	113	0.21	-
2010	April	-	-	172	0.23	-
	May	-	-	182	0.33	-
	June	-	-	200	0.08	-
	July	-	-	220	0.04	-
	August	-	-	205	0.37	-
2011	February	-	-	250	0.008	-
	March	-	-	265	0.09	-
	April	-	-	278	0.01	-
	May	-	-	274	0.10	-
	June	-	-	280	0.05	-
	July	-	-	284	0.07	-
	August	-	-	277	0.19	-
2012	January	-	-	183	0.01	-
	February	-	-	193	0.01	-
	May	-	-	90	0.03	-
	June	-	-	103	0.07	-
	August	-	-	93	0.80	-

Year	Month	Number of Observations from Raw Data		Monthly Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2013	April	-	-	13	2.08	-
	June	-	-	44	0.07	-
	July	-	-	61	0.33	-
2014	June	-	-	71	1.06	-
2015	January	-	-	13	0.15	-
	February	-	-	16	0.13	-
2016	January	-	-	60	1.42	-
	September	-	-	144	0.42	-
	October	-	-	158	0.19	-
	November	-	-	172	0.58	-
	December	-	-	173	0.61	-
2017	January	-	-	172	0.93	-
	February	-	-	168	0.39	-
	March	-	-	176	0.89	-
	April	-	-	173	0.52	-
	July	-	-	185	0.57	-
	November	-	-	184	0.81	-
	December	-	-	179	0.22	-
2018	January	-	-	202	0.24	-
	March	-	-	261	0.08	-
	June	-	-	266	0.02	-
	July	-	-	265	0.01	-
	September	-	-	272	0.03	-

Year	Month	Number of Observations from Raw Data		Monthly Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2019	<i>No sightings of muskox in 2019</i>					
2020	November	-	-	149	0.27	-
2021	October	-	-	89	0.67	-
	November	-	-	171	0.04	-
2022	January	-	-	123	0.16	-
	February	-	-	178	0.18	-
	March	-	-	160	0.10	-
	May	-	-	135	0.24	-
	June	-	-	162	0.12	-
	October	-	-	181	0.33	-
	November	-	-	189	0.47	-
2023	January	25	-	148	0.17	-
	May	6	-	158	0.04	-
	June	18	-	150	0.12	-
	July	47	-	146	0.32	-
	August	2	-	133	0.02	-
	September	139	-	126	1.10	-
	October	124	-	109	1.14	-
	November	40	-	64	0.63	-
2024	January	26	2	83	0.31	0.02
	February	200	8	104	1.92	0.08
	March	44	3	108	0.41	0.03
	June	58	7	161	0.36	0.04
	July	27	4	147	0.18	0.03

Year	Month	Number of Observations from Raw Data		Monthly Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2025	June	21	2	262	0.08	0.01
	July	1	1	270	0.00	0.00
	August	18	4	270	0.07	0.01
	September	30	1	290	0.10	0.00
	October	84	4	310	0.27	0.01
	November	50	2	321	0.16	0.01
	December	179	8	173	1.04	0.05

## Notes:

- Represent missing values from previous WMMP reports, as this appendix was not completed in previous years. The number of individuals corrected by personnel and the months of sightings were the values presented in the muskox sections of previous WMMP reports.

<sup>a</sup> The total number of individuals provided may not always be representative of the true number of individuals recorded, as certain wildlife sightings may include double counting of the same individual(s).

# APPENDIX O      SUMMARY OF GRIZZLY BEAR CAMERA EVENTS, SEPTEMBER 2024 TO AUGUST 2025



APPENDIX O: SUMMARY OF GRIZZLY BEAR CAMERA EVENTS, SEPTEMBER 2024 TO AUGUST 2025

Month	Group	Grizzly Detections	Active Days
2024-09	Control	6	465
2024-09	Treatment	4	492
2024-09	ZOI	8	464
2024-10	Control	5	419
2024-10	Treatment	3	515
2024-10	ZOI	4	475
2024-11	Control	0	420
2024-11	Treatment	0	473
2024-11	ZOI	0	460
2024-12	Control	0	430
2024-12	Treatment	0	460
2024-12	ZOI	0	465
2025-01	Control	0	434
2025-01	Treatment	0	445
2025-01	ZOI	0	456
2025-02	Control	0	390
2025-02	Treatment	0	362
2025-02	ZOI	0	390
2025-03	Control	0	433
2025-03	Treatment	0	378
2025-03	ZOI	0	403
2025-04	Control	0	401
2025-04	Treatment	0	360
2025-04	ZOI	1	316
2025-05	Control	5	295
2025-05	Treatment	0	317
2025-05	ZOI	0	193
2025-06	Control	1	207
2025-06	Treatment	0	142
2025-06	ZOI	1	90
2025-07	Control	6	306
2025-07	Treatment	11	525
2025-07	ZOI	17	366
2025-08	Control	3	325
2025-08	Treatment	21	541
2025-08	ZOI	4	373

# APPENDIX P GRIZZLY BEAR OBSERVATIONS FROM THE WILDLIFE SIGHTINGS LOG CORRECTED FOR PERSONNEL, 2009 TO 2025



## APPENDIX P: GRIZZLY BEAR OBSERVATIONS FROM THE WILDLIFE SIGHTINGS LOG CORRECTED FOR PERSONNEL, 2009 TO 2025

Year	Month	Number of Observations from Raw Data		Monthly Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2009	May	11	5	102	0.11	0.05
	June	4	4	103	0.04	0.04
	July	18	10	113	0.16	0.09
	August	18	17	109	0.17	0.16
	September	6	6	98	0.06	0.06
2010	May	6	6	182	0.03	0.03
	June	2	1	200	0.01	0.01
	July	7	7	220	0.03	0.03
	August	4	4	205	0.02	0.02
	September	7	5	484	0.01	0.01
2011	May	3	3	274	0.01	0.01
	July	3	1	284	0.01	0
	August	10	5	277	0.04	0.02
	September	3	1	277	0.01	0
	October	3	1	270	0.01	0
2012	April	1	1	127	0.01	0.01
	May	2	2	90	0.02	0.02
	June	1	1	103	0.01	0.01
	July	3	1	90	0.03	0.01
	August	6	2	93	0.06	0.02

Year	Month	Number of Observations from Raw Data		Monthly Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2013	July	9	3	61	0.15	0.05
	August	8	3	59	0.14	0.05
	September	3	1	54	0.06	0.02
	October	1	1	49	0.02	0.02
2014	June	2	2	71	0.03	0.03
	July	2	2	77	0.03	0.03
	August	1	1	79	0.01	0.01
	October	1	1	79	0.01	0.01
2015	May	1	1	32	0.03	0.03
	June	3	3	41	0.07	0.07
	July	1	1	46	0.02	0.02
	August	17	11	84	0.2	0.13
	September	2	2	105	0.02	0.02
2016	July	14	5	123	0.11	0.04
	August	10	4	129	0.08	0.03
	October	3	3	158	0.02	0.02
2017	May	8	3	188	0.02	0.02
	June	26	9	189	0.05	0.05
	July	6	2	185	0.01	0.01
	August	13	5	178	0.03	0.03
	September	11	4	179	0.02	0.02
	October	13	5	179	0.03	0.03

Year	Month	Number of Observations from Raw Data		Monthly Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2018	May	9	3	261	0.01	0.01
	June	7	3	266	0.01	0.01
	July	17	8	265	0.03	0.03
	August	12	6	271	0.02	0.02
	September	25	8	272	0.03	0.03
	October	13	5	273	0.02	0.02
	November	3	3	270	0.01	0.01
2019	May	4	1	287	0	0
	June	14	6	304	0.02	0.02
	August	23	13	285	0.05	0.05
	September	33	11	293	0.04	0.04
	October	4	4	306	0.01	0.01
2020	June	5	2	139	0.04	0.01
	July	3	3	137	0.02	0.02
	August	4	4	136	0.03	0.03
	September	7	5	128	0.06	0.04
2021	May	5	5	176	0.03	0.03
	June	12	12	189	0.06	0.06
	July	14	11	193	0.07	0.06
	August	5	5	230	0.02	0.02
	September	4	4	240	0.02	0.02
	October	1	1	89	0.01	0.01

Year	Month	Number of Observations from Raw Data		Monthly Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2022	May	10	5	135	0.07	0.04
	June	11	4	162	0.07	0.02
	July	17	10	164	0.10	0.06
	August	3	2	172	0.02	0.01
	September	18	11	174	0.10	0.06
	October	2	2	181	0.01	0.01
2023	May	6	4	158	0.04	0.02
	June	13	11	150	0.09	0.09
	July	13	6	146	0.09	0.09
	August	6	5	133	0.05	0.03
	September	39	11	126	0.31	0.08
2024	April	1	1	113	0.01	0.01
	May	22	11	133	0.17	0.08
	June	11	10	161	0.07	0.06
	July	12	9	147	0.08	0.06
	August	25	15	161	0.16	0.09
	September	6	5	167	0.04	0.03
	October	4	2	157	0.03	0.01

Year	Month	Number of Observations from Raw Data		Monthly Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2025	May	1	1	255	0.00	0.00
	June	15	5	262	0.06	0.02
	July	28	11	270	0.10	0.04
	August	18	8	270	0.07	0.03
	September	8	8	290	0.03	0.03
	October	9	9	310	0.03	0.03

Note:

<sup>a</sup> The total number of individuals provided may not always be representative of the true number of individuals recorded, as certain wildlife sightings may include double counting of the same individual(s).

# APPENDIX Q SUMMARY OF WOLVERINE CAMERA EVENTS, SEPTEMBER 2024 TO AUGUST 2025



APPENDIX Q: SUMMARY OF WOLVERINE CAMERA EVENTS, SEPTEMBER 2024 TO AUGUST 2025

Month	Group	Wolverine Detections	Active Days
2024-09	Control	0	465
2024-09	Treatment	0	492
2024-09	ZOI	0	464
2024-10	Control	0	419
2024-10	Treatment	0	515
2024-10	ZOI	0	475
2024-11	Control	0	420
2024-11	Treatment	0	473
2024-11	ZOI	0	460
2024-12	Control	0	430
2024-12	Treatment	0	460
2024-12	ZOI	0	465
2025-01	Control	0	434
2025-01	Treatment	0	445
2025-01	ZOI	0	456
2025-02	Control	0	390
2025-02	Treatment	0	362
2025-02	ZOI	0	390
2025-03	Control	0	433
2025-03	Treatment	0	378
2025-03	ZOI	0	403
2025-04	Control	0	401
2025-04	Treatment	0	360
2025-04	ZOI	1	316
2025-05	Control	1	295
2025-05	Treatment	1	317
2025-05	ZOI	0	193
2025-06	Control	0	207
2025-06	Treatment	0	142
2025-06	ZOI	0	90
2025-07	Control	0	306
2025-07	Treatment	0	525
2025-07	ZOI	0	366
2025-08	Control	0	325
2025-08	Treatment	0	541
2025-08	ZOI	1	373

# APPENDIX R WOLVERINE OBSERVATIONS FROM THE WILDLIFE SIGHTINGS LOG CORRECTED FOR PERSONNEL, 2009 TO 2025



## APPENDIX R: WOLVERINE OBSERVATIONS FROM THE WILDLIFE SIGHTINGS LOG CORRECTED FOR PERSONNEL, 2009 TO 2025

Year	Month	Number of Observations from Raw Data		Monthly Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2009	February	1	1	84	0.012	0.012
	May	1	1	102	0.010	0.010
	August	1	1	109	0.009	0.009
2010	March	1	1	131	0.008	0.008
	April	1	1	172	0.006	0.006
2011	January	1	1	214	0.005	0.005
	February	2	2	250	0.008	0.008
	April	2	2	278	0.007	0.007
	May	3	3	274	0.011	0.011
	June	1	1	280	0.004	0.004
	August	2	2	277	0.007	0.007
	November	1	1	252	0.004	0.004
	December	1	1	Unknown	-	-
2012	February	2	2	193	0.01	0.01
	March	1	1	180	0.006	0.006
	April	2	2	127	0.016	0.016
	May	3	3	90	0.033	0.033
2013	May	2	2	20	0.099	0.099
	November	2	2	19	0.105	0.105

Year	Month	Number of Observations from Raw Data		Monthly Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2014	February	1	1	7	0.143	0.143
	May	1	1	63	0.016	0.016
2015	January	1	1	13	0.075	0.075
	February	1	1	16	0.062	0.062
	March	1	1	30	0.033	0.033
	May	2	2	32	0.063	0.063
	July	1	1	46	0.022	0.022
	August	1	1	84	0.012	0.012
	October	2	1	114	0.018	0.009
	December	1	1	89	0.011	0.011
2016	February	1	1	73	0.010	0.010
	March	2	2	78	0.030	0.030
	November	1	1	172	0.010	0.010
2017	March	1	1	176	0.006	0.006
	April	1	1	173	0.006	0.006
	September	1	1	179	0.006	0.006
	December	2	2	179	0.011	0.011
2018	January	1	1	202	0.005	0.005
	February	1	1	261	0.004	0.004
	October	1	1	266	0.004	0.004
	December	1	1	272	0.004	0.004

Year	Month	Number of Observations from Raw Data		Monthly Average of Personnel Onsite	Number of Observations per Personnel	
		No. Individuals <sup>a</sup>	No. Records		No. Individuals	No. Records
2019	April	1	1	291	0.001	0.001
	July	6	4	304	0.020	0.010
	September	1	1	293	0.001	0.001
	October	1	1	306	0.001	0.001
2020	-	0	0	-	0.001	0.001
2021	May	1	1	176	0.010	0.010
	August	1	1	230	0.002	0.001
	September	1	1	240	0.002	0.001
	October	1	1	89	0.010	0.010
2022	<i>No sightings of wolverine in 2022</i>					
2023	March	1	1	165	0.006	0.006
	May	1	1	158	0.006	0.006
2024	January	1	1	83	0.010	0.010
	March	1	1	108	0.009	0.009
	October	1	1	157	0.006	0.006
2025	January	1	1	165	0.01	0.01
	March	1	1	206	0.00	0.00
	May	1	1	255	0.00	0.00
	November	1	1	321	0.00	0.00

Note:

<sup>a</sup> The total number of individuals provided may not always be representative of the true number of individuals recorded, as certain wildlife sightings may include double counting of the same individual(s).

# APPENDIX S      WATER QUALITY RESULTS AT THE TAILINGS IMPOUNDMENT AREA WITH GUIDELINES RELEVANT TO WILDLIFE, 2025



APPENDIX S: WATER QUALITY RESULTS AT THE TAILINGS IMPOUNDMENT AREA WITH GUIDELINES RELEVANT TO WILDLIFE, 2025

Parameter	Sample Point	Date	Data Point (mg/L)	CCME Water Quality Criteria, Livestock (mg/L) <sup>a</sup>
Arsenic (As)-Total	TL-1	1/7/2025	0.002250	0.025
Arsenic (As)-Total	TL-1	1/14/2025	0.002280	0.025
Arsenic (As)-Total	TL-1	1/21/2025	0.002250	0.025
Arsenic (As)-Total	TL-1	1/28/2025	0.002480	0.025
Arsenic (As)-Total	TL-1	2/4/2025	0.002410	0.025
Arsenic (As)-Total	TL-1	2/11/2025	0.002200	0.025
Arsenic (As)-Total	TL-1	2/18/2025	0.002350	0.025
Arsenic (As)-Total	TL-1	2/18/2025	0.002290	0.025
Arsenic (As)-Total	TL-1	2/25/2025	0.002320	0.025
Arsenic (As)-Total	TL-1	3/4/2025	0.002270	0.025
Arsenic (As)-Total	TL-1	3/12/2025	0.002590	0.025
Arsenic (As)-Total	TL-1	3/19/2025	0.002340	0.025
Arsenic (As)-Total	TL-1	3/26/2025	0.002390	0.025
Arsenic (As)-Total	TL-1	4/2/2025	0.002270	0.025
Arsenic (As)-Total	TL-1	4/9/2025	0.002480	0.025
Arsenic (As)-Total	TL-1	4/16/2025	0.002350	0.025
Arsenic (As)-Total	TL-1	4/23/2025	0.002280	0.025
Arsenic (As)-Total	TL-1	4/30/2025	0.002640	0.025
Arsenic (As)-Total	TL-1	5/7/2025	0.002290	0.025
Arsenic (As)-Total	TL-1	5/14/2025	0.002360	0.025
Arsenic (As)-Total	TL-1	5/21/2025	0.002950	0.025
Arsenic (As)-Total	TL-1	5/28/2025	0.002220	0.025
Arsenic (As)-Total	TL-1	6/4/2025	0.002440	0.025
Arsenic (As)-Total	TL-1	6/11/2025	0.002440	0.025
Arsenic (As)-Total	TL-1	6/18/2025	0.002090	0.025
Arsenic (As)-Total	TL-1	6/25/2025	0.001960	0.025
Arsenic (As)-Total	TL-1	7/2/2025	0.002720	0.025
Arsenic (As)-Total	TL-1	7/9/2025	0.001940	0.025
Arsenic (As)-Total	TL-1	7/16/2025	0.001860	0.025
Arsenic (As)-Total	TL-1	7/23/2025	0.002000	0.025
Arsenic (As)-Total	TL-1	7/30/2025	0.002030	0.025
Arsenic (As)-Total	TL-1	8/6/2025	0.002150	0.025
Arsenic (As)-Total	TL-1	8/13/2025	0.002070	0.025
Arsenic (As)-Total	TL-1	8/20/2025	0.002340	0.025
Arsenic (As)-Total	TL-1	8/27/2025	0.003250	0.025
Arsenic (As)-Total	TL-1	8/27/2025	0.002860	0.025

APPENDIX S: WATER QUALITY RESULTS AT THE TAILINGS IMPOUNDMENT AREA WITH GUIDELINES RELEVANT TO WILDLIFE, 2025

Parameter	Sample Point	Date	Data Point (mg/L)	CCME Water Quality Criteria, Livestock (mg/L) <sup>a</sup>
Arsenic (As)-Total	TL-1	9/3/2025	0.002350	0.025
Arsenic (As)-Total	TL-1	9/10/2025	0.002320	0.025
Arsenic (As)-Total	TL-1	9/17/2025	0.002610	0.025
Arsenic (As)-Total	TL-1	9/24/2025	0.002530	0.025
Arsenic (As)-Total	TL-1	10/1/2025	0.001960	0.025
Arsenic (As)-Total	TL-1	10/8/2025	0.002110	0.025
Arsenic (As)-Total	TL-1	10/22/2025	0.001940	0.025
Arsenic (As)-Total	TL-1	10/29/2025	0.001990	0.025
Arsenic (As)-Total	TL-1	11/5/2025	0.001920	0.025
Arsenic (As)-Total	TL-1	11/12/2025	0.001830	0.025
Arsenic (As)-Total	TL-1	11/12/2025	0.001970	0.025
Arsenic (As)-Total	TL-1	11/19/2025	0.002010	0.025
Cadmium (Cd)-Total	TL-1	1/7/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	1/14/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	1/21/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	1/28/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	2/4/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	2/11/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	2/18/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	2/18/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	2/25/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	3/4/2025	0.000050	0.08
Cadmium (Cd)-Total	TL-1	3/12/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	3/19/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	3/26/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	4/2/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	4/9/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	4/16/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	4/23/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	4/30/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	5/7/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	5/14/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	5/21/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	5/28/2025	0.000050	0.08
Cadmium (Cd)-Total	TL-1	6/4/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	6/11/2025	0.000025	0.08

APPENDIX S: WATER QUALITY RESULTS AT THE TAILINGS IMPOUNDMENT AREA WITH GUIDELINES RELEVANT TO WILDLIFE, 2025

Parameter	Sample Point	Date	Data Point (mg/L)	CCME Water Quality Criteria, Livestock (mg/L) <sup>a</sup>
Cadmium (Cd)-Total	TL-1	6/18/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	6/25/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	7/2/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	7/9/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	7/16/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	7/23/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	7/30/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	8/6/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	8/13/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	8/20/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	8/27/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	8/27/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	9/3/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	9/10/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	9/17/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	9/24/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	10/1/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	10/8/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	10/22/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	10/29/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	11/5/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	11/12/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	11/12/2025	0.000025	0.08
Cadmium (Cd)-Total	TL-1	11/19/2025	0.000025	0.08
Copper (Cu)-Total	TL-1	1/7/2025	0.011800	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	1/14/2025	0.011900	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	1/21/2025	0.012	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	1/28/2025	0.012600	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	2/4/2025	0.012100	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	2/11/2025	0.011100	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	2/18/2025	0.012000	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	2/18/2025	0.011400	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	2/25/2025	0.011700	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	3/4/2025	0.011600	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	3/12/2025	0.013600	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	3/19/2025	0.011300	5 <sup>b</sup>

APPENDIX S: WATER QUALITY RESULTS AT THE TAILINGS IMPOUNDMENT AREA WITH GUIDELINES RELEVANT TO WILDLIFE, 2025

Parameter	Sample Point	Date	Data Point (mg/L)	CCME Water Quality Criteria, Livestock (mg/L) <sup>a</sup>
Copper (Cu)-Total	TL-1	3/26/2025	0.012200	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	4/2/2025	0.011600	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	4/9/2025	0.012200	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	4/16/2025	0.013000	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	4/23/2025	0.014400	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	4/30/2025	0.013200	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	5/7/2025	0.012600	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	5/14/2025	0.012300	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	5/21/2025	0.014600	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	5/28/2025	0.012000	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	6/4/2025	0.012500	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	6/11/2025	0.014300	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	6/18/2025	0.011200	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	6/25/2025	0.009400	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	7/2/2025	0.015500	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	7/9/2025	0.008540	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	7/16/2025	0.009370	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	7/23/2025	0.010300	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	7/30/2025	0.008790	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	8/6/2025	0.008960	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	8/13/2025	0.007580	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	8/20/2025	0.007440	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	8/27/2025	0.012900	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	8/27/2025	0.012000	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	9/3/2025	0.008990	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	9/10/2025	0.008120	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	9/17/2025	0.011000	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	9/24/2025	0.010400	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	10/1/2025	0.009110	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	10/8/2025	0.008450	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	10/22/2025	0.008560	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	10/29/2025	0.009100	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	11/5/2025	0.009130	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	11/12/2025	0.008800	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	11/12/2025	0.009100	5 <sup>b</sup>
Copper (Cu)-Total	TL-1	11/19/2025	0.009400	5 <sup>b</sup>

APPENDIX S: WATER QUALITY RESULTS AT THE TAILINGS IMPOUNDMENT AREA WITH GUIDELINES RELEVANT TO WILDLIFE, 2025

Parameter	Sample Point	Date	Data Point (mg/L)	CCME Water Quality Criteria, Livestock (mg/L) <sup>a</sup>
Lead (Pb)-Total	TL-1	1/7/2025	0.000252	0.1
Lead (Pb)-Total	TL-1	1/14/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	1/21/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	1/28/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	2/4/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	2/11/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	2/18/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	2/18/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	2/25/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	3/4/2025	0.000500	0.1
Lead (Pb)-Total	TL-1	3/12/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	3/19/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	3/26/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	4/2/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	4/9/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	4/16/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	4/23/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	4/30/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	5/7/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	5/14/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	5/21/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	5/28/2025	0.000500	0.1
Lead (Pb)-Total	TL-1	6/4/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	6/11/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	6/18/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	6/25/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	7/2/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	7/9/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	7/16/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	7/23/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	7/30/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	8/6/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	8/13/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	8/20/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	8/27/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	8/27/2025	0.000250	0.1

APPENDIX S: WATER QUALITY RESULTS AT THE TAILINGS IMPOUNDMENT AREA WITH GUIDELINES RELEVANT TO WILDLIFE, 2025

Parameter	Sample Point	Date	Data Point (mg/L)	CCME Water Quality Criteria, Livestock (mg/L) <sup>a</sup>
Lead (Pb)-Total	TL-1	9/3/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	9/10/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	9/17/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	9/24/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	10/1/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	10/8/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	10/22/2025	0.000315	0.1
Lead (Pb)-Total	TL-1	10/29/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	11/5/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	11/12/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	11/12/2025	0.000250	0.1
Lead (Pb)-Total	TL-1	11/19/2025	0.000250	0.1
Mercury (Hg)-Total	TL-1	1/7/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	1/14/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	1/21/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	1/28/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	2/4/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	2/11/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	2/18/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	2/18/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	2/25/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	3/4/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	3/12/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	3/19/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	3/26/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	4/2/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	4/9/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	4/16/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	4/23/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	4/30/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	5/7/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	5/14/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	5/21/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	5/28/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	6/4/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	6/11/2025	0.000005	0.003

APPENDIX S: WATER QUALITY RESULTS AT THE TAILINGS IMPOUNDMENT AREA WITH GUIDELINES RELEVANT TO WILDLIFE, 2025

Parameter	Sample Point	Date	Data Point (mg/L)	CCME Water Quality Criteria, Livestock (mg/L) <sup>a</sup>
Mercury (Hg)-Total	TL-1	6/18/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	6/25/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	7/2/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	7/9/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	7/16/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	7/23/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	7/30/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	8/6/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	8/13/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	8/20/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	8/27/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	8/27/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	9/3/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	9/10/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	9/17/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	9/24/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	10/1/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	10/8/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	10/22/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	10/29/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	11/5/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	11/12/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	11/12/2025	0.000005	0.003
Mercury (Hg)-Total	TL-1	11/19/2025	0.000005	0.003
Nickel (Ni)-Total	TL-1	1/7/2025	0.00486	1
Nickel (Ni)-Total	TL-1	1/14/2025	0.00613	1
Nickel (Ni)-Total	TL-1	1/21/2025	0.0056	1
Nickel (Ni)-Total	TL-1	1/28/2025	0.00718	1
Nickel (Ni)-Total	TL-1	2/4/2025	0.00656	1
Nickel (Ni)-Total	TL-1	2/11/2025	0.00615	1
Nickel (Ni)-Total	TL-1	2/18/2025	0.00615	1
Nickel (Ni)-Total	TL-1	2/18/2025	0.00627	1
Nickel (Ni)-Total	TL-1	2/25/2025	0.00624	1
Nickel (Ni)-Total	TL-1	3/4/2025	0.00682	1
Nickel (Ni)-Total	TL-1	3/12/2025	0.00713	1
Nickel (Ni)-Total	TL-1	3/19/2025	0.00584	1

APPENDIX S: WATER QUALITY RESULTS AT THE TAILINGS IMPOUNDMENT AREA WITH GUIDELINES RELEVANT TO WILDLIFE, 2025

Parameter	Sample Point	Date	Data Point (mg/L)	CCME Water Quality Criteria, Livestock (mg/L) <sup>a</sup>
Nickel (Ni)-Total	TL-1	3/26/2025	0.00626	1
Nickel (Ni)-Total	TL-1	4/2/2025	0.00628	1
Nickel (Ni)-Total	TL-1	4/9/2025	0.00694	1
Nickel (Ni)-Total	TL-1	4/16/2025	0.00644	1
Nickel (Ni)-Total	TL-1	4/23/2025	0.00628	1
Nickel (Ni)-Total	TL-1	4/30/2025	0.00664	1
Nickel (Ni)-Total	TL-1	5/7/2025	0.00691	1
Nickel (Ni)-Total	TL-1	5/14/2025	0.0067	1
Nickel (Ni)-Total	TL-1	5/21/2025	0.00755	1
Nickel (Ni)-Total	TL-1	5/28/2025	0.005000	1
Nickel (Ni)-Total	TL-1	6/4/2025	0.00674	1
Nickel (Ni)-Total	TL-1	6/11/2025	0.00604	1
Nickel (Ni)-Total	TL-1	6/18/2025	0.00611	1
Nickel (Ni)-Total	TL-1	6/25/2025	0.00527	1
Nickel (Ni)-Total	TL-1	7/2/2025	0.00812	1
Nickel (Ni)-Total	TL-1	7/9/2025	0.00403	1
Nickel (Ni)-Total	TL-1	7/16/2025	0.00446	1
Nickel (Ni)-Total	TL-1	7/23/2025	0.00321	1
Nickel (Ni)-Total	TL-1	7/30/2025	0.00451	1
Nickel (Ni)-Total	TL-1	8/6/2025	0.00477	1
Nickel (Ni)-Total	TL-1	8/13/2025	0.00449	1
Nickel (Ni)-Total	TL-1	8/20/2025	0.00445	1
Nickel (Ni)-Total	TL-1	8/27/2025	0.0052	1
Nickel (Ni)-Total	TL-1	8/27/2025	0.00444	1
Nickel (Ni)-Total	TL-1	9/3/2025	0.00457	1
Nickel (Ni)-Total	TL-1	9/10/2025	0.00483	1
Nickel (Ni)-Total	TL-1	9/17/2025	0.00599	1
Nickel (Ni)-Total	TL-1	9/24/2025	0.00478	1
Nickel (Ni)-Total	TL-1	10/1/2025	0.00446	1
Nickel (Ni)-Total	TL-1	10/8/2025	0.00561	1
Nickel (Ni)-Total	TL-1	10/22/2025	0.00456	1
Nickel (Ni)-Total	TL-1	10/29/2025	0.00488	1
Nickel (Ni)-Total	TL-1	11/5/2025	0.00489	1
Nickel (Ni)-Total	TL-1	11/12/2025	0.00485	1
Nickel (Ni)-Total	TL-1	11/12/2025	0.00495	1
Nickel (Ni)-Total	TL-1	11/19/2025	0.00526	1

APPENDIX S: WATER QUALITY RESULTS AT THE TAILINGS IMPOUNDMENT AREA WITH GUIDELINES RELEVANT TO WILDLIFE, 2025

Parameter	Sample Point	Date	Data Point (mg/L)	CCME Water Quality Criteria, Livestock (mg/L) <sup>a</sup>
Selenium (Se)-Total	TL-1	1/7/2025	0.000273	0.05
Selenium (Se)-Total	TL-1	1/14/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	1/21/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	1/28/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	2/4/2025	0.000272	0.05
Selenium (Se)-Total	TL-1	2/11/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	2/18/2025	0.000258	0.05
Selenium (Se)-Total	TL-1	2/18/2025	0.000258	0.05
Selenium (Se)-Total	TL-1	2/25/2025	0.000269	0.05
Selenium (Se)-Total	TL-1	3/4/2025	0.000500	0.05
Selenium (Se)-Total	TL-1	3/12/2025	0.000281	0.05
Selenium (Se)-Total	TL-1	3/19/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	3/26/2025	0.000276	0.05
Selenium (Se)-Total	TL-1	4/2/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	4/9/2025	0.00026	0.05
Selenium (Se)-Total	TL-1	4/16/2025	0.000288	0.05
Selenium (Se)-Total	TL-1	4/23/2025	0.000277	0.05
Selenium (Se)-Total	TL-1	4/30/2025	0.000324	0.05
Selenium (Se)-Total	TL-1	5/7/2025	0.00028	0.05
Selenium (Se)-Total	TL-1	5/14/2025	0.000327	0.05
Selenium (Se)-Total	TL-1	5/21/2025	0.000407	0.05
Selenium (Se)-Total	TL-1	5/28/2025	0.000500	0.05
Selenium (Se)-Total	TL-1	6/4/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	6/11/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	6/18/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	6/25/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	7/2/2025	0.000306	0.05
Selenium (Se)-Total	TL-1	7/9/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	7/16/2025	0.000319	0.05
Selenium (Se)-Total	TL-1	7/23/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	7/30/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	8/6/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	8/13/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	8/20/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	8/27/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	8/27/2025	0.000250	0.05

APPENDIX S: WATER QUALITY RESULTS AT THE TAILINGS IMPOUNDMENT AREA WITH GUIDELINES RELEVANT TO WILDLIFE, 2025

Parameter	Sample Point	Date	Data Point (mg/L)	CCME Water Quality Criteria, Livestock (mg/L) <sup>a</sup>
Selenium (Se)-Total	TL-1	9/3/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	9/10/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	9/17/2025	0.000267	0.05
Selenium (Se)-Total	TL-1	9/24/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	10/1/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	10/8/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	10/22/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	10/29/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	11/5/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	11/12/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	11/12/2025	0.000250	0.05
Selenium (Se)-Total	TL-1	11/19/2025	0.000250	0.05
Zinc (Zn)-Total	TL-1	1/7/2025	0.015000	50
Zinc (Zn)-Total	TL-1	1/14/2025	0.015000	50
Zinc (Zn)-Total	TL-1	1/21/2025	0.015000	50
Zinc (Zn)-Total	TL-1	1/28/2025	0.015000	50
Zinc (Zn)-Total	TL-1	2/4/2025	0.015000	50
Zinc (Zn)-Total	TL-1	2/11/2025	0.015000	50
Zinc (Zn)-Total	TL-1	2/18/2025	0.015000	50
Zinc (Zn)-Total	TL-1	2/18/2025	0.015000	50
Zinc (Zn)-Total	TL-1	2/25/2025	0.015000	50
Zinc (Zn)-Total	TL-1	3/4/2025	0.030000	50
Zinc (Zn)-Total	TL-1	3/12/2025	0.015000	50
Zinc (Zn)-Total	TL-1	3/19/2025	0.015000	50
Zinc (Zn)-Total	TL-1	3/26/2025	0.015000	50
Zinc (Zn)-Total	TL-1	4/2/2025	0.015000	50
Zinc (Zn)-Total	TL-1	4/9/2025	0.015000	50
Zinc (Zn)-Total	TL-1	4/16/2025	0.015000	50
Zinc (Zn)-Total	TL-1	4/23/2025	0.015000	50
Zinc (Zn)-Total	TL-1	4/30/2025	0.015000	50
Zinc (Zn)-Total	TL-1	5/7/2025	0.015000	50
Zinc (Zn)-Total	TL-1	5/14/2025	0.015000	50
Zinc (Zn)-Total	TL-1	5/21/2025	0.015000	50
Zinc (Zn)-Total	TL-1	5/28/2025	0.030000	50
Zinc (Zn)-Total	TL-1	6/4/2025	0.015000	50
Zinc (Zn)-Total	TL-1	6/11/2025	0.015000	50

APPENDIX S: WATER QUALITY RESULTS AT THE TAILINGS IMPOUNDMENT AREA WITH GUIDELINES RELEVANT TO WILDLIFE, 2025

Parameter	Sample Point	Date	Data Point (mg/L)	CCME Water Quality Criteria, Livestock (mg/L) <sup>a</sup>
Zinc (Zn)-Total	TL-1	6/18/2025	0.015000	50
Zinc (Zn)-Total	TL-1	6/25/2025	0.015000	50
Zinc (Zn)-Total	TL-1	7/2/2025	0.015000	50
Zinc (Zn)-Total	TL-1	7/9/2025	0.015000	50
Zinc (Zn)-Total	TL-1	7/16/2025	0.015000	50
Zinc (Zn)-Total	TL-1	7/23/2025	0.015000	50
Zinc (Zn)-Total	TL-1	7/30/2025	0.015000	50
Zinc (Zn)-Total	TL-1	8/6/2025	0.015000	50
Zinc (Zn)-Total	TL-1	8/13/2025	0.015000	50
Zinc (Zn)-Total	TL-1	8/20/2025	0.015000	50
Zinc (Zn)-Total	TL-1	8/27/2025	0.015000	50
Zinc (Zn)-Total	TL-1	8/27/2025	0.015000	50
Zinc (Zn)-Total	TL-1	9/3/2025	0.015000	50
Zinc (Zn)-Total	TL-1	9/10/2025	0.015000	50
Zinc (Zn)-Total	TL-1	9/17/2025	0.015000	50
Zinc (Zn)-Total	TL-1	9/24/2025	0.015000	50
Zinc (Zn)-Total	TL-1	10/1/2025	0.015000	50
Zinc (Zn)-Total	TL-1	10/8/2025	0.015000	50
Zinc (Zn)-Total	TL-1	10/22/2025	0.015000	50
Zinc (Zn)-Total	TL-1	10/29/2025	0.015000	50
Zinc (Zn)-Total	TL-1	11/5/2025	0.015000	50
Zinc (Zn)-Total	TL-1	11/12/2025	0.015000	50
Zinc (Zn)-Total	TL-1	11/12/2025	0.015000	50
Zinc (Zn)-Total	TL-1	11/19/2025	0.015000	50

Notes:

<sup>a</sup> Canadian Council of Ministers of the Environment (CCME) Water Quality Guidelines for the Protection of Agriculture—Livestock (CCME 2021).

<sup>b</sup> Guideline is variable and 5 mg/L for poultry was used from the CCREM's 1987 (updated in 2008) Canadian Water Quality Guidelines.

# APPENDIX T      MARINE MAMMAL MONITORING IN ROBERTS BAY, 2025



## APPENDIX T: MARINE MAMMAL MONITORING IN ROBERTS BAY, 2025

Survey Date	Survey Location	Anchored Vessel	# of Moving Vessels	Time of Sighting	Species	Count	Age	Sex	Behaviour	Behaviour Changes?	Comments
August 9, 2025	Truck (0432526, 7563324)	None	0						No observations		
August 10, 2025	Truck (68°10'32"N, 106°37'35"W)	None	0						No observations		
August 11, 2025	Truck (68°10'32"N, 106°37'34"W)	None	0	7:14	Harbour seal	1	UNK	UNK	Resting	-	Seal resting on rock
August 12, 2025	Truck (68°10'32"N, 106°37'34"W)	Qamutik	0						No observations		
August 13, 2025	68°10'32"N, 106°37'34"W	Qamutik	0						No observations		
August 14, 2025	68°10'32"N, 106°37'34"W	Qamutik	0						No observations		
August 15, 2025	Truck (68°10'38"N, 106°38'13"W)	Qamutik	0						No observations		
August 16, 2025	Truck (68°10'38"N, 106°38'12"W)	Qamutik	0						No observations		
August 17, 2025	Truck (68°10'38"N, 106°38'13"W)	Qamutik	0						No observations		
August 18, 2025	0432526, 7563324	Qamutik	0						No observations		
August 19, 2025	Truck (68°10'38"N, 106°38'13"W)	Qamutik	0						No observations		
August 20, 2025	Truck (68°10'38"N, 106°38'13"W)	Qamutik	0						No observations		
August 21, 2025	Truck (68°10'38"N, 106°38'13"W)	None	0						No observations		
August 22, 2025	Truck (68°10'38"N, 106°38'13"W)	None	0						No observations		
August 23, 2025	68°10'32"N, 106°37'34"W	None	0						No observations		
August 24, 2025	Jetty (68°10'32"N, 106°37'34"W)	None	0						No observations		
August 25, 2025	Truck (68°10'32"N, 106°37'34"W)	None	0						No observations		
August 26, 2025	68°10'31"N, 106°37'34"W	None	0						No observations		
August 27, 2025	68°10'38"N, 106°38'13"W	Dolfijngracht	0						No observations		
August 28, 2025	Discharge Jetty	Dolfijngracht	0						No observations		
August 29, 2025	-	-	0						No observations		
September 1, 2025	730 Building	Dolfijngracht	0						No observations		
September 2, 2025	730 Building	Dolfijngracht	2						No observations		
September 3, 2025	North of Roberts Bay Single Tank Farm	Dolfijngracht, Sivumut	2						No observations		
September 4, 2025	Rockhill at Roberts Bay Single Tank Farm	Sivumut	0						No observations		
September 5, 2025	730 Building	Dolpfijngracht, Ukpik, Sivumut	0						No observations		
September 6, 2025	730 Building	Dolfijngracht, Sivumut, Ukpik	0						No observations		
September 7, 2025	730 Building	Ukpik	1						No observations		
September 8, 2025	-	Ukpik	0	14:00	Ringed seal	1	-	UNK	Swimming	-	Sighting coordinates: 432621, 7565655
September 9, 2025	730 Building	Ukpik	0						No observations		

Survey Date	Survey Location	Anchored Vessel	# of Moving Vessels	Time of Sighting	Species	Count	Age	Sex	Behaviour	Behaviour Changes?	Comments
September 10, 2025	730 Building	Ukpik	0								No observations
September 11, 2025	730 Building	Ukpik	0								No observations
September 12, 2025	730 Building	Ukpik	0								No observations
September 13, 2025	730 Building	Ukpik, Qikiqtaaluk W	0								No observations
September 14, 2025	730 Building	Ukpik, Qikiqtaaluk W	0								No observations
September 15, 2025	730 Building	Ukpik, Qikiqtaaluk W	1								No observations
September 16, 2025	730 Building	Ukpik, Qikiqtaaluk W	2								No observations
September 17, 2025	730 Building	Ukpik, Qikiqtaaluk W	0								No observations
September 18, 2025	Roberts Bay	Qikiqtaaluk W, Qamutik, Ukpik	0								No observations
September 19, 2025	730 Jetty	Qikiqtaaluk W, Qamutik, Ukpik	0								No observations
September 20, 2025	730 Jetty	Qikiqtaaluk W, Ukpik, Qamutik	0								No observations
September 21, 2025	730 Jetty	Qikiqtaaluk W, Ukpik, Qamutik	0								No observations
September 22, 2025	730 Jetty	Qikitaaluk W, Ukpik	0								No observations
September 23, 2025	730 Jetty	-	0								No observations
September 24, 2025	730 Jetty	Qikitaaluk W, Ukpik	0								No observations
September 25, 2025	730 Jetty	Qikiqtaaluk W	0								No observations
September 26, 2025	730 Jetty	Qikiqtaaluk W	0								No observations
September 27, 2025	Offloading Jetty	Qikiqtaaluk W	0								No observations
September 28, 2025	730 Jetty	None	0								No observations
September 29, 2025	730 Jetty	None	0	11:07	Harbour seal	1	Adult	UNK	Resting	-	-
September 29, 2025	730 Jetty	None	0	11:08	Harbour seal	1	Adult	UNK	Swimming	-	-
September 30, 2025	730 Jetty	None	0								No observations
October 1, 2025	Main Jetty	None	0								No observations

# APPENDIX U      SUMMARY OF THE AT SEA VESSEL WILDLIFE SIGHTINGS LOG AND INCIDENTAL SIGHTINGS, 2025



## APPENDIX U: SUMMARY OF THE AT SEA VESSEL WILDLIFE SIGHTINGS LOG AND INCIDENTAL SIGHTINGS, 2025

Vessel Name	Date	Time	Ship Speed (kt)	Species	Distance from Vessel (m)	Number of Individuals	Behaviour	Notes	Ship Strike?	Mitigation Action and Result
Ukpik	9/25/2025	16:00	13.2				No observations			
Ukpik	9/24/2025	23:00	14.1	Unknown gull	300	2	Resting on ocean surface	Flying around the forward mast and following its light	No	-
Ukpik	9/23/2025	13:23	12.3	Unknown gull	600	1	Flying	Flying around coast of Bellot Strait	-	-
Ukpik	9/22/2025	23:00	8.9				No observations			
Ukpik	9/21/2025	2:00	At anchor	Snowy Owl	0	1	Flying	Flying over the ship	-	-
Ukpik	9/20/2025	23:00	At anchor				No observations			
Ukpik	9/19/2025	22:00	At anchor	Greater Scaup	1000	5	Resting on ocean surface	Looks like two groups	-	-
Ukpik	9/18/2025	8:00	At anchor				No observations			
Ukpik	9/17/2025	21:00	At anchor	Canada Goose	500	10	Resting on ocean surface	Resting	No	-
Ukpik	9/16/2025	21:00	At anchor				No observations			
Ukpik	9/15/2025	20:00	At anchor	Unknown gull	300	3	Flying	Some brown gulls	-	-
Ukpik	9/14/2025	16:00	At anchor	Unknown gull	600	2	Flying	Flying from distance; one looked juvenile	-	-
Ukpik	9/13/2025	18:00	At anchor				No observations			
Ukpik	9/12/2025	16:00	At anchor				No observations			
Ukpik	9/11/2025	18:00	At anchor				No observations			
Ukpik	9/10/2025	20:00	At anchor				No observations			
Ukpik	9/9/2025	20:00	At anchor	Unknown gull	500	6	Resting on ocean surface	White gulls; not sure which one	No	-
Ukpik	9/8/2025	20:00	At anchor				No observations			
Ukpik	9/7/2025	20:00	At anchor				No observations			
Ukpik	9/6/2025	20:00	-				No observations			
Ukpik	9/5/2025	20:00	-				No observations			
Ukpik	9/4/2025	14:42	11.1	Glaucous Gull	10	3	Flying	-	No	No
Ukpik	9/3/2025	10:30	6.5	Northern Fulmar	300	10	Flying	Swimming and flying around	No	Maintained southern border of route
Ukpik	9/2/2025	9:01	8.7	Northern Fulmar	50	2	Flying	Flying in circle	No	No
Ukpik	9/2/2025	11:01	9.1	Northern Fulmar	10	2	Flying	-	-	No
Qikiqtaaluk W	9/10/2025	12:00	10.8				No observations			
Qikiqtaaluk W	9/11/2025	12:00	11.5				No observations			
Qikiqtaaluk W	9/12/2025	12:00	11	Glaucous Gull	100	1	Other		-	-

Vessel Name	Date	Time	Ship Speed (kt)	Species	Distance from Vessel (m)	Number of Individuals	Behaviour	Notes	Ship Strike?	Mitigation Action and Result
Qikiqtaaluk W	9/13/2025	12:00	0				No observations			
Qikiqtaaluk W	9/14/2025	13:00	0	Double-crested Cormorant	500	1	Other		-	-
Qikiqtaaluk W	9/15/2025	13:00	0				No observations			
Qikiqtaaluk W	9/16/2025	13:00	0	Greater Scaup	1000	5	Other	Age = mix	-	-
Qikiqtaaluk W	9/17/2025	13:00	0	Common Loon	300	1	Other		-	-
Qikiqtaaluk W	9/18/2025	14:00	0				No observations			
Qikiqtaaluk W	9/19/2025	13:00	0	Iceland Gull	1000	1	Other		-	-
Qikiqtaaluk W	9/20/2025	16:00	0	Iceland Gull	800	1	Other		-	-
Qikiqtaaluk W	9/21/2025	13:00	0	Greater Scaup		2	Feeding	Feeding along shore	-	-
Qikiqtaaluk W	9/22/2025	12:00	0	Red-breasted Merganser	1500	10	Feeding		-	-
Qikiqtaaluk W	9/23/2025	13:00	0	Red-breasted Merganser	500	7	Other	Age = mix; Comment = resident birds	-	-
Qikiqtaaluk W	9/23/2025	13:00	0	Cackling/Canada Goose	500	100	Flying	Fly south	-	-
Qikiqtaaluk W	9/24/2025	13:00	0	Canada Goose	750	1	Resting		-	-
Qikiqtaaluk W	9/25/2025	13:00	0	Red-breasted Merganser	700	7	Feeding	Age = adult x 2, young x 2; resident ducks	-	-
Qikiqtaaluk W	9/26/2025	13:00	0				No observations			
Qikiqtaaluk W	9/27/2025	12:00	0	Red-breasted Merganser	1000	1	Other	Resident duck	-	-
Qikiqtaaluk W	9/10/2025	12:00	10.8				No observations			
Qikiqtaaluk W	9/11/2025	12:00	11.5	Harp seal	600	12	Travel	Harp seals beating	-	-
Qikiqtaaluk W	9/12/2025	12:00	11				No observations			
Qikiqtaaluk W	9/13/2025	12:00	0				No observations			
Qikiqtaaluk W	9/14/2025	13:00	0				No observations			
Qikiqtaaluk W	9/15/2025	13:00	0				No observations			
Qikiqtaaluk W	9/16/2025	13:00	0				No observations			
Qikiqtaaluk W	9/17/2025	13:00	0				No observations			
Qikiqtaaluk W	9/18/2025	14:00	0				No observations			
Qikiqtaaluk W	9/19/2025	13:00	0				No observations			
Qikiqtaaluk W	9/20/2025	16:00	0	Ringed seal	1000	2	Travel	1000 m south of ship	-	-
Qikiqtaaluk W	9/21/2025	13:00	0				No observations			
Qikiqtaaluk W	9/22/2025	12:00	0				No observations			
Qikiqtaaluk W	9/23/2025	13:00	0				No observations			
Qikiqtaaluk W	9/24/2025	13:00	0	Ringed seal	500	1	Feeding		-	-

Vessel Name	Date	Time	Ship Speed (kt)	Species	Distance from Vessel (m)	Number of Individuals	Behaviour	Notes	Ship Strike?	Mitigation Action and Result
Qikiqtaaluk W	9/25/2025	13:00	0				No observations			
Qikiqtaaluk W	9/26/2025	13:00	0				No observations			
Qikiqtaaluk W	9/27/2025	12:00	0				No observations			



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