

APPENDIX A TABLE OF CONCORDANCE

APPENDIX A: TABLE OF CONCORDANCE

TABLE A-1: TERMS AND CONDITIONS, COMPLIANCE, AND DOCUMENT SECTION – WILDLIFE AND WILDLIFE HABITAT

Term	Condition	Compliance	Section
10	<p>The Proponent shall demonstrate its consideration of options to further mitigate noise generated from project activities, equipment, and components during normal operations as well as from project activities, equipment, and components that would remain operational during staged reduction events (e.g., noise barriers, acoustic insulation, exhaust silencers).</p> <p>For the wind turbines specifically, the Proponent shall monitor for both noise and vibration to confirm that the noise and vibration levels associated with the normal operation of the wind turbines remains within the predicted levels as set out in the 2023 IS Addendum. If monitoring identifies that noise and/or vibration exceeds predicted levels, the Proponent shall provide an explanation for the exceedance, a description of planned mitigation and shall conduct additional monitoring to evaluate the effectiveness of mitigation measures.</p>	<p>In Compliance</p> <p>The WMMP Plan (Version 13, October 2024) Section 6.2.2 specifies noise abatement measures developed to be implemented throughout the life of the Mine to meet safety regulations for Mine personnel and to reduce any disturbance to wildlife.</p> <p>In 2024, noise monitoring was completed in the winter and summer to measure the amount of noise produced by the Mine at various distances from the Mine footprint against the threshold for general project noise of 45 dBA used in the FEIS. Average Leq were below the threshold, apart for two locations that were marginally above the threshold (0.3 and 0.7 dBA) during only one season and were likely attributed to short term noise associated with the WIR and helicopter travel.</p>	Section 2.8
37	<p>The Proponent shall have in place a Wildlife Mitigation and Monitoring Program Plan (WMMPP) throughout all phases of the Project. The plan shall include detailed monitoring, mitigation, and adaptive management measures for wildlife, and shall detail considerations for: species-specific sensitive wildlife periods and areas; activities known to affect wildlife; specific triggers for mitigation and adaptive management intervention; and implementation of all commitments made throughout the Nunavut Impact Review Board's (NIRB) assessment of the Project.</p> <p>The Proponent shall demonstrate appropriate refinements to the WMMPP's design throughout the life of the Project, as necessary to allow for the identification of long-term trends and cumulative effects where project interactions with wildlife are identified. Updates to the WMMPP may be triggered by significant changes in project development plans including the development of the Energy Centre Project Infrastructure (wind turbines, solar panel array, Battery Energy Storage System, transmission lines, and service roads);, monitoring results indicating biologically-meaningful changes, significant updates to the scientific understanding of management methods relevant to wildlife at the project site, Inuit Qaujimagatuqangit, Traditional Knowledge, changes in climatic conditions that might subject wildlife to unexpected impacts, or as otherwise necessary.</p>	<p>In Compliance</p> <p>The WMMP Plan was updated to Version 13 in 2024 to include commitments made by B2Gold in response to comments and suggestions made by the Kitikmeot Inuit Association (KIA) and to include the Energy Centre.</p>	Sections 1.1.2, 1.2
38	<p>In consultation with the Government of Nunavut, the Kitikmeot Inuit Association, and other relevant parties, the Proponent shall make efforts to contribute to existing and planned cumulative effects and regional monitoring programs for caribou, grizzly bear, wolverine and muskox, as appropriate. Relevant details of coordination through data sharing arrangements or agreements should be highlighted.</p>	<p>In Compliance</p> <p>Regional monitoring programs completed in 2024 include: Camera monitoring for caribou, muskox, and grizzly bears, wolverine (and other carnivores), collar monitoring for caribou, and monitoring for raptors and migratory birds.</p> <p>In 2024, B2Gold Nunavut contributed to GNWT regional collar monitoring program by collecting collars from non-Mine associated caribou mortalities within the RSA.</p> <p>Data sharing agreements are in place with the GNWT for caribou GPS collar data, used for both near real-time monitoring and longer-term analysis.</p>	Sections 3.8, 3.9, 4.4, 5.5, 6.4, 6.5, 6.6, 7.4
39	<p>The Proponent shall provide, within its Wildlife Mitigation and Monitoring Program Plan (WMMPP), measures for the staged reduction of project activities should caribou occur in proximity to the project site, including the Energy Centre Project Infrastructure (wind turbines, solar panel array, Battery Energy Storage System, transmission lines, and service roads). The WMMPP will include a detailed description of all project activities, equipment, and components that would be managed during different phases of staged reduction mitigation events, including rapid and planned operational shutdowns should caribou calving or post-calving ranges overlap with the Project. Any planned activity restrictions/cessations should be of sufficient duration to take into account annual variation in the timing and distribution of calving and post-calving caribou interactions with the Project.</p>	<p>In Compliance</p> <p>In 2024, an increase of the Caribou Management System was required on five occasions, with Level 4 being implemented three times with blasting being suspended and reminder to site personnel on caribou mitigative measures being issued each time. To mitigate for effects on caribou, the Environment Department monitored GNWT collar data daily during the calving, post-calving, and summer seasons (July – August).</p>	Sections 3.2, 3.4
40	<p>In consultation with the Kitikmeot Inuit Association, the Government of Nunavut, and relevant parties, the Proponent shall ensure that the utilization of satellite collar data as an early detection method for caribou takes into consideration an agreed-upon biological buffer, as well as potential lag times associated with delayed access to collar data, for the development of thresholds for monitoring and adaptive management triggers.</p>	<p>In Compliance</p> <p>To mitigate for effects on caribou, the Environment Department monitored GNWT collar data daily during the calving, post-calving, and summer seasons (July – August).</p>	Sections 3.2, 3.4

Term	Condition	Compliance	Section
41	<p>The Proponent shall demonstrate consideration for the increased potential of caribou presence in the area when planning outdoor construction activities (including site clearing, blasting, and operation of heavy equipment) during the July 26 to August 31 period.</p> <p>The Proponent shall also demonstrate consideration for the increased potential of caribou presence in the area during this period when constructing and operating the Energy Centre Project Infrastructure (wind turbines, solar panel array, Battery Energy Storage System, transmission lines, and service roads) including, but not limited to a discussion of the Proponent's plans for caribou-specific mitigation, monitoring and adaptive management if there is increased caribou presence in the area.</p>	<p>In Compliance</p> <p>In 2024, an increase of the Caribou Management System was required on five occasions. Level 4 was implemented three times with blasting being suspended and reminder to site personnel on caribou mitigative measures being issued each time. To mitigate for effects on caribou, the Environment Department monitored GNWT collar data daily during the calving, post-calving, and summer seasons (July – August).</p> <p>The WMMP Plan was updated to Version 13 in 2024 to include the mitigation and monitoring measures specific to the Energy Centre, including incorporation of the Energy Centre into the Caribou Management System.</p>	Sections 2.5, 3.2, 3.4
42	The Proponent shall ensure that all caribou mitigation and monitoring measures (including mitigation for shifts in calving and post-calving ranges) included within the Wildlife Mitigation Monitoring Program Plan apply to all caribou, regardless of the herd.	<p>In Compliance</p> <p>Mitigation and monitoring is presented for the Beverly/Ahiak, Bathurst, and Dolphin and Union caribou herds. Caribou from the Beverly/Ahiak herd interact with Back River during the summer months, and to a lesser degree during the fall and winter periods. The range boundaries for the Dolphin and Union caribou herd is approximately 100 km from the Back River site, and do not regularly interact with the Project. Despite this, mitigation, management, and monitoring applies to all caribou, regardless of herd.</p>	Section 3
43	In consultation with the Government of Nunavut (GN) and other relevant authorities, the Proponent shall include criteria and procedures within its Wildlife Mitigation and Monitoring Program Plan governing the deterring of wildlife from blast zones and the relaxation of mitigation measures for animals deemed project-tolerant. Caribou shall be deterred using only agreed-upon deterrence measures established in consultation with the GN and only if their safety is deemed at risk.	<p>In Compliance</p> <p>Pre-blast surveys recorded an unspecified number located 4 km from Echo Pit on October 5, 2024. The caribou was located outside of the trigger distance (2.5 km), and as a result no mitigation was required. No other mammals were observed during pre-blast surveys in 2024. No project-tolerant wildlife were observed in 2024.</p>	Section 2.5
44	In collaboration with the Government of Nunavut, the Proponent shall specify within its Wildlife Mitigation and Monitoring Plan specific mitigation measures, trigger distances, and group size thresholds for the protection of muskox in proximity to project activities (e.g., blasting, heavy truck traffic, and aircraft).	<p>In Compliance</p> <p>The WMMP Plan (Version 13, October 2024) Section 8.2 specifies mitigation measures, trigger distances, and group size thresholds for muskox in proximity to project activities. These triggers were not reached in 2024, and as such additional mitigation was not required. Muskox were observed within 1 km of the Mine on four occasions in 2024; However, because muskox were observed moving through the area and not lingering, no additional monitoring was completed in 2024.</p>	Sections 2.4, 2.5, 4
45	To mitigate potential disturbances to wildlife migration and movement from Project infrastructure including the Energy Centre Project Infrastructure (wind turbines, solar panel array, Battery Energy Storage System, transmission lines, and service roads).	<p>In Compliance</p> <p>The WMMP Plan was updated to Version 13 in 2024 to include mitigation and management for the disruption of movement of caribou and other wildlife.</p> <p>General mitigation and management for disruption of movement of caribou and other wildlife focuses on management of mine roads and the WIR.</p> <p>Bank heights along the WIR were actively managed to be as low as possible to allow easy passage by caribou, with many sections having negligible bank height or slope as compared to the road grade. Following snow or wind events, on-site biologists observed immediate actions by road maintenance equipment operators to reduce bank heights in all sections of the WIR.</p>	Sections 2.3, 3.3
46	The Proponent shall file an incident report to the local wildlife conservation office for any and all direct wildlife mortalities that occur in association with the Project. All incident reports should include sufficient detail to demonstrate how monitoring and mitigation measures failed to prevent the mortality, as well as information pertaining to what measures would be put in place to prevent the incident from reoccurring. The Proponent shall reach an agreement with the appropriate Designated Inuit Organization regarding compensation for any direct mortality of wildlife resulting from the Project.	<p>In Compliance</p> <p>Three wildlife mortality were recorded in 2024, none of which were determined to be Mine related. Wildlife incident reports were filed with the Government of Nunavut (GN) for 1 of 3 wildlife mortalities in 2024 at the time of occurrence. All mortalities are reported in the annual WMMP Report.</p>	Section 9
47	The Proponent shall, in consultation with the Kitikmeot Inuit Association, develop and implement measures to prevent the use of water attenuation ponds and tailings storage areas by wildlife, including waterfowl, other migratory birds, and caribou, with sufficient monitoring to assess whether these measures are effective or whether further deterrents may be required.	<p>In Compliance</p> <p>As of 2024, the TSF or other on-site ponds have not been constructed at the Mine. As a result, waterbird monitoring in ponds was not completed in 2024 and is anticipated to begin once on-site ponds are constructed at the Project.</p>	Sections 3.7, 6.3

Term	Condition	Compliance	Section
48	The Proponent shall develop and implement mitigation measures and monitoring programs to limit the attraction of predators and scavengers to Project facilities, and to limit impacts from specific project activities.	<p>In Compliance</p> <p>Inspections of WMA's were completed regularly throughout the year. Compliance with guidance in the <i>Waste Management Pre-construction, Construction, and Operations SOP</i> (B2Gold 2024f) was high in 2024. On-site wildlife camera monitoring occurred throughout 2024.</p> <p>Actions implemented as a result of regular inspections in 2024 included:</p> <ul style="list-style-type: none"> • Separation and proper disposal of misdirected waste, including littered waste; • Installing proper signage detailing what waste is permitted in each bin type; • Ensuring all wastes with runoff potential are within secondary containment structures; • Installation of lids on all waste storage containers to reduce potential water accumulation from snow melt; • Creation of a brochure to guide proper waste disposal and segregation; and, • Ensuring containers in contact with oily waste materials are cleaned frequently to reduce accumulation of any drippings. 	Sections 2.6, 2.7, 3.7
49	<p>The Proponent shall report to the Nunavut Impact Review Board (NIRB) regarding its terrestrial wildlife monitoring efforts, with inclusion of the following information:</p> <ol style="list-style-type: none"> a. Description of all updates to terrestrial wildlife baseline data; b. A description of the involvement of local communities in its monitoring programs; c. A detailed presentation and analysis of the distribution relative to Project infrastructure and activities for caribou and other terrestrial mammals observed during surveys and incidental sightings; and d. Results of the annual monitoring programs, including methodologies and statistical approaches used to support conclusions drawn. 	<p>In Compliance</p> <p>No new IQ or TK was collected in 2024. In-person community meetings returned in 2024. B2Gold will continue to address comments raised about its monitoring programs directly with community members where appropriate.</p> <p>Methods, results and associated discussion for each VEC-specific monitoring program are included in the WMMP Annual Report.</p>	Section 1.1.2 <i>Results and Discussion</i> subsections in Sections 3, 4, 5
50	<p>Within its annual report to the NIRB, the Proponent shall incorporate a review section which includes:</p> <ol style="list-style-type: none"> a. An examination for trends in the measured natural variability of Valued Ecosystem Components in the region relative to the baseline reporting; b. A detailed analysis of wildlife responses to operations with emphasis on wildlife behaviour, mortalities, and displacements (if any), and responses to project operations; c. A detailed description of staged reduction mitigation events, including operational shutdowns, undertaken throughout the year in response to wildlife in proximity to the Project and including the Energy Centre Project Infrastructure (wind turbines, solar panel array, Battery Energy Storage System, transmission lines, and service roads). Details shall include, but are not limited to: <ol style="list-style-type: none"> i. A description of the aggregation and species of wildlife encountered including terrestrial wildlife such as caribou, migratory birds, moose, musk ox, foxes and wolves, etc.; ii. Environmental conditions; iii. A description of the sequence of activities ceased as well as the duration of cessation; and iv. The effectiveness of the applied mitigation measures and potential amendments that may be required. d. A demonstration and description of how the monitoring results contribute to cumulative effects monitoring associated with the Project; and e. Any proposed changes to the monitoring survey methodologies, statistical approaches, or proposed adaptive management stemming from the results of the monitoring program. 	<p>In Compliance</p> <p>Detections of VECs at the project were recorded and presented throughout the 2024 WMMP Report, as collected via numerous monitoring programs. Ongoing monitoring will inform potential trends as the Project progresses through construction and into operation.</p> <p>Analysis of wildlife responses to operations are detailed in the <i>Results and Discussion</i> subsections of Sections 3 to 8. Three wildlife mortality were recorded in 2024, none of which were determined to be Mine related.</p> <p>In 2024, an increase of the Caribou Management System was required on five occasions. Level 4 was implemented three times with blasting being suspended and reminder to site personnel on caribou mitigative measures being issued each time.</p> <p>Cumulative effects monitoring related to the Project will incorporate multiple years of data, including baseline data, to inform potential influence of the Project on a broader scale. Programs established in 2024 include caribou monitoring to determine groups size thresholds, regional collar monitoring for ZOI and movement rate, noise monitoring, regional camera monitoring, pit and quarry wall raptor nest monitoring, and regional monitoring for raptors and migratory birds.</p> <p>Data from monitoring programs are used to inform adaptive management actions to reduce interactions between wildlife VECs and Project facilities or infrastructure. In 2024, no changes to survey methodologies or statistical approaches were made based on the results of the monitoring program, and the methods were successful.</p> <p>The WMMP Plan was updated to Version 13 in 2024 to include the Energy Centre.</p>	Sections 1.2, 2, 3, 4, 5, 6, 7, 8, 9

Term	Condition	Compliance	Section
51	<p>In collaboration with the Kitikmeot Inuit Association, the Government of Nunavut, and other relevant parties, the Proponent shall develop and participate in a Caribou Technical Advisory Group. As part of its function, the group shall seek to:</p> <ul style="list-style-type: none"> • Provide independent advice on study design(s) and analyses for the testing and evaluation of the Project's adaptive management measures for reducing disturbance to caribou; • Undertake appropriate testing of the caribou detection methods, group size thresholds, and distance thresholds employed as recommended by the advisory group; • On the basis of these tests, and any other available evidence, provide analyses and a written evaluation of the caribou protection measures and where appropriate make necessary adjustments to those measures; • Submit reports to the Nunavut Impact Review Board (NIRB), and other relevant parties, for review; and • Provide independent advice on mitigation, monitoring study design(s), and adaptive management of the potential for effects on caribou associated with the Energy Centre Project Infrastructure (wind turbines, solar panel array, Battery Energy Storage System, transmission lines, and service roads). 	<p>In Compliance</p> <p>The CTAG is composed of representatives from B2Gold, the KIA, the GN DOE and other experts requested by the representatives to address particular issues. In addition to the WMMP Plan, B2Gold has also produced detailed memos to discuss particular aspects of management with the CTAG.</p> <p>In 2024, caribou monitoring to determine groups size thresholds was completed.</p> <p>The WMMP Plan was updated to Version 13 in 2024 to include mitigation and monitoring measures specific to the Energy Centre.</p>	Sections 1.2, 3.5
52	<p>The Proponent shall, in collaboration with the Government of Nunavut, the Government of the Northwest Territories, the Kitikmeot Inuit Association and other relevant parties, thoroughly evaluate the potential impacts to caribou from planned mineral exploration within its mineral tenures and outside the approved project development area. The Proponent must demonstrate that the potential for adverse effects to caribou populations can be prevented prior to exploration occurring.</p>	<p>In Compliance</p> <p>B2Gold confirms that there is currently no planned or occurring mineral exploration within its mineral tenures and outside the approved Project Development Area (PDA) which is based out of, or substantially supported by, infrastructure or operations at the Back River Project.</p>	N/A
53	<p>The Proponent shall have in place specific measures for the protection and monitoring of birds and bird habitat within its Wildlife Mitigation and Monitoring Program Plan (WMMPP). Protection measures shall include, but are not limited to:</p> <ul style="list-style-type: none"> • Mitigation and monitoring measures applied at all times throughout project operations to limit impacts to birds and bird habitat from specific project activities and infrastructure; • Mitigation and monitoring measures applied during periods of heightened sensitivity or alternative circumstances; • Adaptive management measures with specific triggers for intervention including but not limited to reduced or shutdown procedures for inclement weather during migration; • Protocols for collaboration with relevant parties, and the Project's advisory groups, throughout the Project, including on-going consideration and incorporation of Inuit Qaujimaningit, to ensure the effective delivery of the WMMPP as related to bird and bird habitat protection; and, • Conducting a bird mortality survey annually for five (5) years once the turbines are operational to confirm predictions. If predictions are confirmed, then the survey can be completed every three (3) years to ensure that predictions remain consistent. 	<p>In Compliance</p> <p>Pre-clearing surveys are conducted prior to construction occurring during the bird breeding season to ensure all nests in the area are located (e.g., in case of new nest construction) and occupancy status is confirmed. Bird pre-clearing surveys were conducted in accordance with the <i>Pre-Clearing Nest Surveys for Land Clearing Pre-construction, Construction SOP</i> (B2Gold 2024m).</p> <p>In 2024, 18 pre-clearing surveys for birds (including raptors and migratory birds) were conducted between May 20 and August 10. Pre-clearing surveys identified one active willow ptarmigan nest. Additionally, six active nests were incidentally recorded within the Mine footprint. All nests belonged to upland bird species. Appropriate buffers were established and nest monitoring was completed for all identified active nests.</p> <p>Raptor pit and quarry wall nest monitoring was completed for Echo Pit in 2024, with no raptor activity or nests identified during surveys.</p> <p>Regional monitoring programs for raptors and migratory birds was initiated in 2024. Monitoring results were compared to the baselines, and will be compared to future years of monitoring once completed.</p> <p>Results from monitoring programs in 2024 did not trigger any adaptive management activities required to reduce any potential disturbance to birds and bird habitat.</p> <p>B2Gold has developed the document '<i>Guidance for Incorporating Community Perspectives and Traditional Knowledge in the Back River Project's Monitoring Programs</i>' to assist in the preparation of its annual monitoring reports.</p> <p>The WMMP Plan was updated to Version 13 in 2024 to include mitigation and monitoring measures specific to the Energy Centre. Mortality monitoring will be initiated once the Energy Centre is constructed.</p>	Sections 1.1.2, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 7.2, 7.3, 7.4, 7.5
54	<p>If Species at Risk or their nests and eggs are encountered during project activities or monitoring programs, the primary mitigation measure must be avoidance. The Proponent shall establish clear zones of avoidance for nest of birds, particularly for Species At Risk, based on species-specific nest setback distances outlined in the Wildlife Mitigation and Monitoring Program Plan.</p>	<p>In Compliance</p> <p>Avian Species at Risk detected incidentally or during regional monitoring for raptors and migratory birds in 2024 are reported in the WMMP Annual Report. No nests of avian Species at Risk were detected.</p> <p>Where possible, construction activities were scheduled to occur outside of the bird breeding season of May 15 and August 15. If avoidance was not possible, then pre-clearing bird nest surveys were conducted.</p>	Sections 6.2, 6.4, 6.5, 6.6, 6.7, 7.2, 7.3, 7.4, 7.5, 10

Term	Condition	Compliance	Section
55	The Proponent shall ensure that the mitigation and monitoring strategies developed for Species at Risk are updated as necessary to maintain consistency with any applicable status reports, recovery strategies, action plans, and management plans that may become available through the duration of the Project.	In Compliance The table of species at risk is updated annually to reflect the most up-to-date information for species, statuses, and known/potential occurrence at the Mine.	Section 10
56	The Proponent shall, to the extent possible, schedule required ground-disturbance activities (e.g. clearing) to occur prior to the seasonal return of migratory birds to the project area and shall install nesting deterrents (e.g. flagging) to discourage birds from nesting in areas likely to be disturbed by construction/clearing activities. If clearing is to occur during the nesting season, a nest survey should take place to identify nests and establish appropriate setbacks to ensure nests remain undisturbed until the young have fledged or left the nest. Pre-clearing nest surveys should be conducted less than 14 days prior to land clearing activities as a consideration for the short nesting cycles of some arctic-nesting birds.	In Compliance Where possible, construction activities were scheduled to occur outside of the bird breeding season of May 15 and August 15. If avoidance was not possible, then pre-clearing bird nest surveys were conducted. In 2024, 18 pre-clearing surveys for birds (including raptors and migratory birds) were conducted between May 20 and August 10. Pre-clearing surveys identified one active willow ptarmigan nest. Additionally, six active nests were incidentally recorded within the Mine footprint. All nests belonged to upland bird species. Appropriate buffers were established and nest monitoring was completed for all identified active nests.	Sections 6.2, 7.2
57	Prior to removal or deterrence of raptors, the Proponent will contact the Government of Nunavut – Department of Environment to discuss proposed mitigation options and, if required, will obtain the required permits prior to undertaking any activity that can lead to the destruction of raptor nests or the deterring of raptors from nesting sites.	In Compliance No raptors or raptor nests were deterred or removed in 2024.	N/A
58	The Proponent shall include measures within the Wildlife Mitigation and Monitoring Program Plan to ensure that, subject only to vessel safety requirements, a setback distance of at least 500 metres is maintained from colonies and moulting aggregations of seabirds and waterfowl during Project shipping transiting through Bathurst/Elu Inlet, Lambert Channel, and Eastern Lancaster Sound.	In Compliance Prior to the 2024 shipping season, B2Gold provided an SOP to the shipping contractors, which describes the management and monitoring requirements for the Project. Between August and October 2024, 77 seabird surveys were completed while travelling along the eastern shipping route. None of the seabird sightings noted during surveys indicated requirements for management activity.	Section 8.2
59	Any incidents of bird mortalities associated with project activities are to be recorded and reported to Environment and Climate Change Canada (Canadian Wildlife Service). The Proponent shall work with the Canadian Wildlife Service to determine appropriate recording and reporting format and timing.	In Compliance One bird mortality was recorded in 2024, with the cause determined to be natural predation. As a result, the mortality was not reported to ECCC at the time of occurrence. Full details of bird mortalities are presented in the 2024 Annual Report.	Section 9 Appendix G
60	Subject to safety requirements, the Proponent shall ensure that project aircraft maintain sufficient cruising altitudes to avoid disturbance to migratory birds. In particular, the Proponent shall maintain appropriate altitudes in proximity to observed concentrations of migratory birds, caribou and muskoxen that may be encountered during aircraft flights to the George property and other exploration areas, as well as during the transfer of employees between project facilities.	In Compliance In 2024, no fixed-wing pilots reported any emergencies or weather conditions which required low-level flight (below 610 m). Prior to all aircraft take-off and landing at the airstrip, a survey for wildlife was conducted to ensure safe departure and/or arrival for aircrafts and for wildlife. Caribou were incidentally recorded near the Goose airstrip and the MLA airstrip in 2024, but no interactions between wildlife and fixed wing aircraft occurred. On three occasions, deterrence was successfully completed to move the caribou farther from the airstrip prior to the arrival of incoming aircrafts. During helicopter flights, pilots maintained a minimum 610 m vertical flying altitude or 1 km - 4 km horizontal distance from caribou if they were observed, except when landing or takeoff, as indicated by the WMMP Plan, depending on time of year and caribou group size. Incidental observations made by pilots or passengers from helicopters were recorded and reported. No additional mitigation was implemented in 2024, and no interactions between wildlife and helicopters were reported.	Sections 2.4, 9 Appendix G
61	The Proponent shall ensure that pilots are informed of minimum cruising altitude guidelines and that a daily log or record of flight paths and cruising altitudes for project aircraft is maintained to monitor adherence and to follow up on complaints.	In Compliance Fixed wing flights were recorded on pilot logs. The tracks of helicopters were recorded using a Global Positioning System (GPS), which recorded the track, including the time, latitude, longitude and elevation. No fixed-wing pilots reported any emergencies or weather conditions which required low-level flight (below 610 m). Helicopter pilots avoided flying close to the ground even when wildlife were absent, except when doing short-distance drill moves or approaching/leaving landing sites.	Section 2.4

TABLE A-2: TERMS AND CONDITIONS, COMPLIANCE, AND DOCUMENT SECTION – MARINE WILDLIFE

Term	Condition	Compliance	Section
63	The Proponent shall undertake a survey for seals and seal lairs annually prior to construction of the winter airstrip and ice road on Bathurst Inlet, and shall take every precaution to align these components to ensure that seal dens/lairs are not impacted by Project infrastructure or activities.	<p>In Compliance</p> <p>In 2024, B2Gold did not construct the on-ice airstrip at the MLA; therefore, no pre-construction surveys were required.</p> <p>As construction of the WIR between the MLA and the Western River occurred prior to February 15 in 2024, no pre-construction surveys were required.</p>	Section 8.3
64	The Proponent shall ensure that shipping companies contracted for the Project have in place appropriate ship-based marine mammal monitoring programs and protocols developed through consultation with Fisheries and Oceans Canada, communities, and other interested parties. Consideration should be provided for utilizing, trained observers for full-time marine wildlife monitoring with established data collection and recording protocols.	<p>In Compliance</p> <p>Prior to the 2024 shipping season, B2Gold provided a Marine Shipping SOP and Shipping Management Guidelines brochure to the shipping contractors, which describes the management and monitoring requirements for the Project.</p> <p>During 2024, incidental marine mammal and seabird sightings were recorded by crew members on nine of the vessels (including date/time of sighting, vessel information, environmental information, and sightings information). There were no incidents or sightings requiring management actions in 2024.</p>	Section 8.2
65	The Proponent shall ensure contracted shipping companies are made aware of and required to avoid sensitive wildlife habitat and species along the shipping route and use appropriate protocols and equipment to reduce the potential for an accidental release of fuel or other deleterious substances into the marine environment. These protocols should also be communicated to local communities.	<p>In Compliance</p> <p>Prior to the 2024 shipping season, B2Gold provided a Marine Shipping SOP and Shipping Management Guidelines brochure to the shipping contractors, which describes the management and monitoring requirements for the Project.</p> <p>There were no incidents or sightings requiring management actions in 2024.</p>	Section 8.2

APPENDIX B OVERVIEW OF WILDLIFE MITIGATION AND MONITORING PROGRAMS DURING PHASES OF THE BACK RIVER MINE

APPENDIX B-1	OVERVIEW OF CARIBOU AND MUSKOX MONITORING PROGRAMS—CONSTRUCTION
APPENDIX B-2	OVERVIEW OF GRIZZLY BEAR AND WOLVERINE MONITORING PROGRAMS—CONSTRUCTION
APPENDIX B-3	OVERVIEW OF BIRD MONITORING PROGRAMS—CONSTRUCTION
APPENDIX B-4	OVERVIEW OF MARINE MAMMAL MONITORING PROGRAMS—CONSTRUCTION
APPENDIX B-5	OVERVIEW OF GENERAL WILDLIFE MANAGEMENT—CONSTRUCTION

APPENDIX B: OVERVIEW OF WILDLIFE MITIGATION AND MONITORING PROGRAMS DURING PHASES OF THE BACK RIVER MINE

TABLE B-1: OVERVIEW OF CARIBOU AND MUSKOX MONITORING PROGRAMS – CONSTRUCTION

Monitoring Programs	Frequency During Construction	WMMP Plan Section	New in 2024?	Conducted in 2024?	Methods	WMMP Report Section
Caribou						
1) Monitor Seasonal Caribou Ranges <i>Use collar data to track during which seasons caribou are likely to interact with the Project</i>	Yearly	7.3.1.1	No	Yes	Collar data Bathurst and Beverly/Ahiak - calculate kernel utilization distributions (UD) for each season.	3.4
2) Near Real-time Collar Monitoring <i>Use collar data to track near real-time location of caribou herds</i>	Ongoing	7.3.1.2	No	Yes	Collar data - the trigger distance 14 km or greater to ensure that caribou are outside any possible ZOI when ground-based monitoring is triggered. This distance will alert wildlife monitors and trigger active caribou monitoring and a site alert.	3.2
3) Active Caribou Monitoring <i>Wildlife monitors will survey for caribou from raised platforms or using cameras</i> <i>Includes muskox</i>	Ongoing, if triggered (Caribou - calving through summer, or caribou within 4 km; muskox - within 1 km of aboveground blasting)	7.3.1.3 (muskox 8.3.1.3)	No	Yes	Wildlife Monitoring Training program 4 locations: 1) The Umwelt hill observation point; 2) The Airstrip observation point; 3) The Echo Pit Waste Rock Storage Area observation point; and 4) The Llama Lake observation Point. Use vehicle-based monitoring.	2.5 3.2 3.6 (muskox 4.2)
4) Incidental Wildlife Reporting <i>Incidental observations of wildlife and incidents</i> <i>Includes muskox</i>	Ongoing	7.3.1.4 (muskox 8.3.1.2)	No	Yes	Report observations of wildlife species.	3.10 (muskox 4.5)
5) Onsite Camera Monitoring <i>Use motion-trigger cameras to track caribou interactions with Project infrastructure</i> <i>Includes muskox</i>	Ongoing	7.3.1.5 (muskox 8.3.1.1)	No	Yes	Remote cameras at various locations. Across years, data analysis will evaluate 1) the timing of caribou presence, 2) activity around Project facilities, and 3) the use of road crossing structures.	3.7 (muskox 4.3)
6) Over the Horizon Monitoring <i>If ZOI monitoring indicates that management must be conducted for caribou when they are over the horizon (greater than can be observed from site)</i>	If triggered	7.3.1.6	Yes (only if triggered)	Yes	Should onsite behaviour monitoring or regional monitoring using satellite collars indicate that there is a need to monitor for caribou at distances greater than can be observed from the Umwelt Lake and Airstrip observation points, then the over-the-horizon monitoring program will be triggered.	NA
7) Human Activity Monitoring <i>Reporting hunting and fishing on the Project site</i>	Ongoing	7.3.1.7	No	Yes	Incidental observations of people using the winter ice road will be reported to environment staff.	2.3.2.2
8) Traffic Monitoring on Winter Ice Road <i>Record the number of Project vehicles using the winter ice road</i>	Ongoing	7.3.1.8	No	Yes	Vehicle dispatch will record the number of vehicles using the winter ice road in a vehicle log book.	2.3.2.1
9) Aircraft Monitoring <i>Record the number of aircraft trips to and from the Project site</i>	Ongoing	7.3.1.9	No	Yes	Record the number and type of aircraft, and flight paths from GPS trackers on aircraft.	2.4
10) Caribou Monitoring on WIR <i>Determine if any caribou are moving towards the road or attempting to cross the road</i>	Ongoing, if WIR after April 15	7.3.1.10	No	Yes	An onsite wildlife monitor will drive the winter ice road a minimum of twice per day, recording any caribou observations along the way.	3.3.1.1
11) Caribou Monitoring to Determine Groups Size Thresholds <i>Refining the number of caribou in a group used to guide mitigation.</i>	One time (between years 1-3)	7.3.1.11	Yes	Yes	Aerial Survey.	3.5

Monitoring Programs	Frequency During Construction	WMMP Plan Section	New in 2024?	Conducted in 2024?	Methods	WMMP Report Section
Caribou Monitoring to Measures Predicted Effects from FEIS						
1) Footprint Monitoring <i>Includes muskox</i>	Yearly	7.3.2.1 (muskox 8.3.2.1)	No	Yes	GIS analysis to overlay constructed footprint area with habitat suitability maps for caribou. Maps and a table of habitat loss will be produced.	2.1
2) Behaviour Monitoring Program <i>Includes muskox</i>	10/Year	7.3.2.2 (muskox 8.3.2.3)	No	Yes	Scan sampling.	3.6 (muskox 4.2)
3) Regional Collar Monitoring for ZOI and Movement Rate	Every 3 Years	7.3.2.4	Yes	Yes	BACI design using collar data before and after construction of the Project with a dose-response calculation used by Boulanger et al. (2012) to define treatment and control.	NA
4) Noise Monitoring <i>Monitor noise levels outside the footprint</i>	One time	7.3.2.5	Yes	Yes	March and June at 10 sites.	2.8
5) Collaborative Herd-scale Monitoring <i>Cumulative effects monitoring Includes muskox</i>	TBD	7.3.2.7	TBD	No	Coordinate with GN and GNWT to support. Report contribution to cumulative effects monitoring in WMMP.	NA
6) Regional Camera Monitoring <i>Includes muskox</i>	Every 3 Years	7.3.2.8 (muskox 8.3.2.2)	Yes	Yes	60 cameras (20 in each ZOI, treatment, and control), following same baseline design.	3.8 (Muskox 4.4)

TABLE B-2: OVERVIEW OF GRIZZLY BEAR AND WOLVERINE MONITORING PROGRAMS – CONSTRUCTION

Monitoring Programs	Frequency During Construction	WMMP Plan Section	New in 2024?	Conduct in 2024?	Methods	WMMP Report Section
1) Onsite Camera Monitoring <i>Use motion-trigger cameras to track grizzly bear interactions with Project infrastructure</i>	Ongoing	9.3.1.1	No	Yes	Same as caribou (WMMP Section 7.3.1.5).	5.4
2) Incidental Wildlife Reporting <i>Incidental observations of wildlife and incidents</i>	Ongoing	9.3.1.2	No	Yes	Same as caribou (WMMP Section 7.3.1.4).	5.6
3) Skirting and Building Monitoring	Monthly	9.3.1.3	No	Yes	Monitors will walk the perimeter of the skirting/fencing looking for damage, downed fencing, animals, or animal sign inside the fence.	2.7 5.3
4) Waste Management Monitoring <i>Monitoring waste storage areas for misdirected waste or signs of wildlife</i>	Weekly	9.2.6.2, 9.3.1.4	No	Yes	Record misdirected waste, monitor weekly, and annual audit.	2.6 5.2
5) Avoid dens during construction	Ongoing	9.2.2.2	No	Yes	Avoid dens by required distance.	2.3.2.4
6) WIR Management	If triggered	9.2.2.7, 9.3.1.5	No	Yes	Pre-construction surveys in WIR in denning habitat.	2.3.2.4
7) Monitoring for grizzly bear in relation to blasting	Ongoing, if triggered	9.3.1.6	No	Yes	Same as caribou (WMMP Section 7.3.1.3).	2.5
8) Footprint Monitoring	Yearly	9.3.2.1	No	Yes	GIS analysis to overlay constructed footprint area with habitat suitability maps for carnivores. Maps and a table of habitat loss will be produced.	2.1
9) Regional Camera Monitoring	Every 3 Years	9.3.2.2	No	Yes	Same as caribou (WMMP Section 7.3.2.8).	5.5
10) Contribution to GN/GNWT monitoring initiatives	TBD	9.3.2.3	TBD	No		

TABLE B-3: OVERVIEW OF BIRD MONITORING PROGRAMS – CONSTRUCTION

Monitoring Programs	Frequency During Construction	WMMP Plan Section	New in 2024?	Conduct in 2024?	Methods	WMMP Report Section
All Birds						
1) Pre-clearing Surveys for Nests <i>Pre-survey areas if construction occurs during nesting season</i>	Ongoing, if triggered	10.3.1.2 11.3.1.2 12.3.1.1 13.3.1.1	No	Yes	Survey transects stratifying area scheduled to be cleared for construction during the breeding bird season: • Raptors April 15 to August 15; • Waterbirds/Marine Birds May 15 to August 15; and • Upland birds May 15 to August 15.	6.2 7.2
2) Incidental Wildlife Reporting <i>Incidental observations of wildlife and incidents</i>	Ongoing	10.3.1.4 11.3.1.4 12.3.1.3	No	Yes	Same as caribou (WMMP Section 7.3.1.4).	6.7 7.5
3) Footprint Size Monitoring	Ongoing	10.3.2.1 11.3.2.1 12.3.2.1 13.3.2.1	No	Yes	Same as caribou (WMMP Section 7.3.2.1).	2.1
Raptors						
1) Pit and Quarry Wall Nest Monitoring <i>Monitor pits for nesting raptors</i>	Weekly (April 15 to August 15)	10.3.1.1	Yes	Yes	Nest surveys will be conducted in pit and quarry areas scheduled for blasting during the raptor breeding period at least once a week.	7.3
2) Regional Survey for Raptor Nests <i>Aerial monitoring to estimate productivity</i>	Every 3 years	10.3.2.2	Yes	Yes	Raptor nests in the RSA will be monitored to determine distribution, occupancy, and productivity, following methods used during baseline surveys.	7.4
Waterbirds						
1) Waterbird Monitoring on Ponds <i>Monitor waterbird usage of Project ponds if water quality does not meet wildlife guidelines (if water is present in ponds during the Project Phase in question)</i>	Weekly (May through October)	11.3.1.1	Yes	No (ponds in 2024)	Monitoring will be conducted using 1) stationary wildlife cameras, or 2) by a qualified person trained in bird ecology and behaviour.	6.3
2) Regional Monitoring for Waterbirds <i>Aerial and ground surveys to measure breeding for waterbirds</i>	Every 3 years	11.3.2.2	Yes	Yes	Trial 2 methods and compare during the first year of migratory bird surveys: 1. Aerial surveys to record waterbird breeding in the terrestrial RSA; and 2. Ground-based surveys of select ponds within 5 km of Project infrastructure and in control areas.	6.4.1.1 6.4.1.2
3) Regional Monitoring for Waterbirds <i>Aerial and ground surveys to examine staging areas for waterbirds</i>	Every 3 years (2 times yearly)	11.3.2.2	Yes	Yes	Same as regional monitoring for waterbirds during breeding season (WMMP Section 11.3.2.2).	6.4.2.1 6.4.2.2

Monitoring Programs	Frequency During Construction	WMMP Plan Section	New in 2024?	Conduct in 2024?	Methods	WMMP Report Section
Upland Birds						
1) Regional Monitoring for Upland Birds <i>PRISM/ VRPC surveys for upland breeding birds</i>	Every 2 years	12.3.2.2	Yes	Yes	Combination of variable radius point-count surveys and PRISM plots. A suite of plots at varying distances from mine infrastructure within the RSA will be revisited and/or established.	6.5
Marine Birds						
1) Regional Monitoring for Marine Birds <i>Aerial and ground surveys to measure breeding for marine birds</i>	Every 3 years	13.3.2.2	Yes	Yes	Same as waterbirds (WMMP Section 11.3.2.2).	6.6
2) Regional Monitoring for Marine Birds <i>Aerial and ground surveys to examine staging areas for marine birds</i>	Every 3 years (2 times yearly)	13.3.2.2	Yes	Yes	Same as waterbirds (WMMP Section 11.3.2.2).	6.6
3) Marine Bird Monitoring During Shipping <i>Incidental Seabird Observations from Ships</i>	Ongoing	13.3.2.3	No	Yes	Seabird monitoring will be conducted as incidental observations by the ship's bridge crew.	8.2

TABLE B-4: OVERVIEW OF MARINE MAMMAL MONITORING PROGRAMS – CONSTRUCTION

Monitoring Programs	Frequency During Construction	WMMP Plan Section	New in 2024?	Conduct in 2024?	Methods	WMMP Report Section
Marine Mammals						
1) On-Ice Monitoring at the MLA - Seals <i>Pre-survey sea ice if on-ice works occur Feb 15-March 15</i>	If triggered	14.3.1.1	No	Yes	Pre-construction surveys for sea lairs if construction of the WIR or the on-ice airstrip occurs after February 15.	8.3
2) Incidental Observations <i>Incidental observations of wildlife and incidents Incidental Marine Mammal and Polar Bear Observations from Ships</i>	Ongoing	14.3.1.2	No	Yes	Same as caribou (WMMP Section 7.3.1.4). Monitoring as incidental observations by the ship's bridge crew.	8.4

TABLE B-5: OVERVIEW OF GENERAL WILDLIFE MANAGEMENT – CONSTRUCTION

Management Program (All Wildlife)	Frequency During Construction	WMMP Plan Section	New in 2024?	Methods	WMMP Report Section
1) Management System to Reduce Disturbance <i>Site Alert/Shut down system</i>	Ongoing	7.2.2.1	No		3.2
2) Fixed-wing and Helicopter Management <i>Maintaining altitude, pause flights</i>	Ongoing	7.2.2.6 7.2.2.7	No		2.4
3) Blasting Management <i>Monitor and pause blasting, site wide notification system</i>	Ongoing	7.2.2.8 8.2.2.4 9.2.2.6	No		2.5
4) Heavy Equipment management	Ongoing	7.2.2.9	No		2.2

APPENDIX C WASTE INSPECTION LOCATIONS, 2024

APPENDIX C: WASTE INSPECTION LOCATIONS, 2024

Date of Inspection	Goose									MLA
	Main Camp	Exploration Camp	Major Drilling	Airstrip	Construction Laydown	Maintenance and Underground Laydown	Mine Operations	Landfill and Open Burn Pile	Freshwater Barge	
January 14, 2024 ¹		X	X		X	X		X		
January 28, 2024 ¹	X	X			X	X		X		
February 14, 2024 ¹	X	X			X	X	X	X		
February 19, 2024 ¹		X			X	X	X	X		
February 28, 2024 ¹	X	X			X	X		X		
March 31, 2024		X			X	X		X		
March 10, 2024 ¹	X	X			X	X		X		
March 25, 2024 ¹		X	X		X	X		X		
April 1, 2024	X	X	X		X	X		X		
April 13, 2024 ¹		X			X	X		X		
April 19, 2024 ¹		X			X	X		X		
May 1, 2024		X	X		X	X				
May 12, 2024 ¹	X		X			X				
May 19, 2024	X	X	X	X	X	X	X	X		
June 2, 2024	X	X	X	X	X	X	X	X		
June 12, 2024		X	X		X	X	X			
June 24, 2024	X	X	X	X	X	X	X	X		
July 1, 2024		X	X							
July 21, 2024	X	X	X	X	X	X	X	X		
July 28, 2024	X	X	X	X	X	X	X	X		
August 4, 2024	X	X	X	X	X	X	X	X		
August 17, 2024	X	X	X	X	X	X	X	X		
September 26, 2024										X
October 5, 2024	X	X	X	X	X	X		X		
October 12, 2024	X	X	X	X	X	X	X	X		
October 24, 2024										X
October 25 and 28, 2024 ²	X	X	X	X	X	X	X	X		
November 1, 2025										X
November 2, 2024	X	X	X	X			X	X		
November 6, 2024					X	X				
November 17, 2024	X	X	X	X	X	X	X	X		
December 2, 2024										X

APPENDIX C: WASTE INSPECTION LOCATIONS, 2024

Date of Inspection	Goose									MLA
	Main Camp	Exploration Camp	Major Drilling	Airstrip	Construction Laydown	Maintenance and Underground Laydown	Mine Operations	Landfill and Open Burn Pile	Freshwater Barge	
December 5 and 7, 2024 ²	X	X	X	X		X	X		X	
December 10, 2024										X
December 15 and 16, 2024 ²	X	X	X	X	X	X	X	X	X	
December 18, 2024										X
December 22, 2024	X	X	X	X	X	X	X	X	X	
Total	21	29	22	15	27	29	17	25	3	6

Note: All inspections included both waste and building and skirting inspections, except for January 14 which was only waste (building and skirting inspection completed on January 15 and not included here).

¹ Inspection records only included locations where deficiencies were noted; however, inspections were still completed at other locations.

² Inspections completed over the course of two days and as a result are presented together.

APPENDIX D BUILDING AND SKIRTING INSPECTIONS, 2024

APPENDIX D: BUILDING AND SKIRTING INSPECTIONS, 2024

Date of Inspection	Site Inspected	Locations Where Deficiencies Were Noted	Building Securement Deficiencies	Skirting Deficiencies	Signs of Wildlife near Building and Skirting
January 15, 2024	Goose	Main Camp, Exploration Camp, Incinerator, Underground Laydown, Mine operations	3	11	0
January 28, 2024 ¹	Goose	-	0	0	0
February 14, 2024 ¹	Goose	Open Burn Pile	1	0	0
February 19, 2024 ¹	Goose	-	0	0	0
February 28, 2024 ¹	Goose	-	0	0	0
March 31, 2024	Goose	Construction	1	0	0
March 10, 2024 ¹	Goose	Construction, Maintenance	2	0	0
March 25, 2024 ¹	Goose	-	0	0	0
April 1, 2024	Goose	Main Camp Kitchen Deck	1	1	0
April 13, 2024 ¹	Goose	-	0	0	0
April 19, 2024 ¹	Goose	Construction	1	0	0
May 1, 2024	Goose	-	0	0	0
May 12, 2024 ¹	Goose	-	0	0	0
May 19, 2024	Goose	Construction, Exploration Camp, Major Drilling, Mine Operations, Main Camp Kitchen Deck, Incinerator, Underground Laydown	7	5	2
June 2, 2024	Goose	Exploration Camp, Major Drilling, Incinerator, Assay Lab, Construction, Main Camp, Mine Operations	4	3	0
June 12, 2024	Goose	Construction, Underground Laydown, Mine Operations	3	0	0
June 24, 2024	Goose	Major Drilling, Incinerator, Main Camp, Mine Operations	2	2	0
July 1, 2024	Goose	Major Drilling	0	1	1
July 21, 2024	Goose	Major Drilling, Incinerator, Main Camp, Airstrip, Mine Operations, Underground Laydown, Construction	5	2	0
July 28, 2024	Goose	Major Drilling, Incinerator		2	0

APPENDIX D: BUILDING AND SKIRTING INSPECTIONS, 2024

Date of Inspection	Site Inspected	Locations Where Deficiencies Were Noted	Building Securement Deficiencies	Skirting Deficiencies	Signs of Wildlife near Building and Skirting
August 4, 2024	Goose	Major Drilling, Main Camp, Underground Laydown	2	1	0
August 17, 2024	Goose	Major Drilling	1	0	0
September 26, 2024	MLA	-	0	0	0
October 5, 2024	Goose	Exploration Camp, Main Camp, Assay Lab, Underground Laydown, Construction	3	3	0
October 12, 2024	Goose	Main Camp, Construction	1	1	0
October 24, 2024	MLA	-	0	0	0
October 25 and 28, 2024 ²	Goose	Exploration Camp, Major Drilling, Assay Lab, Maintenance	1	3	1
November 1, 2024	MLA	-	0	0	0
November 2, 2024	Goose	Main Camp	1	0	0
November 6, 2024	Goose	Maintenance	1	0	0
November 17, 2024	Goose	Exploration Camp, Incinerator	1	1	0
December 2, 2024	MLA	-	0	0	0
December 5 and 7, 2024 ²	Goose	ANFO Loading, Underground Laydown	2	0	0
December 10, 2024	MLA	Cold Storage	1	0	0
December 15 and 16, 2024 ²	Goose	Construction	1	0	0
December 18, 2024	MLA	New Camp	0	1	0
December 22, 2024	Goose	Main Camp	1		0
Total			46	37	4

Note: All inspections included both waste and building and skirting inspections, except for January 14 which was only waste (building and skirting inspection completed on January 15 and not included here).

¹ Inspection records only included locations where deficiencies were noted; however, inspections were still completed at other locations.

² Inspections completed over the course of two days and as a result are presented together.

APPENDIX E WINTER ICE ROAD CARIBOU OBSERVATIONS, 2024

APPENDIX E: WINTER ICE ROAD CARIBOU OBSERVATIONS, 2024

Date	Location	Group Size (Estimated for Groups >100)	Crossed WIR
31-Mar-24	KM9	5	No
2-Apr-24	KM91	3	No
3-Apr-24	KM19	50	No
5-Apr-24	KM78	3	No
6-Apr-24	P12	50	No
10-Apr-24	KM70	13	No
13-Apr-24	P21	1	No
13-Apr-24	KM71	2	No
13-Apr-24	P23	3	No
15-Apr-24	KM147	70	No
17-Apr-24	KM 123, Lake 34	10	No
17-Apr-24	KM 71, Lake 21	17	No
21-Apr-24	KM 93, Lake 30	25	No
21-Apr-24	KM 129, Lake 34	150	No
21-Apr-24	KM 36, Lake 11	14	No
17-Apr-24	KM 122, Lake 34	2	Yes
18-Apr-24	KM 114.5, Lake 34	4	No
18-Apr-24	KM 1, Lake 1	50	Yes
29-Apr-24	KM 57.5, Lake 15	100	No
1-May-24	KM 68.5, Lake 20	100	No
29-Apr-24	KM 69, Lake 20/20A	1000	No
29-Apr-24	KM 55, Lake 15	1000	Yes
27-Apr-24	KM 52, Lake 14	10000	Yes
29-Apr-24	KM 72.5, Lake 22	10000	Yes
30-Apr-24	KM 71.5, Lake 21	10000	Yes
29-Apr-24	KM 137, Lake	12	No
1-May-24	KM 69.5, Lake 20A	130	No
29-Apr-24	KM 63, Lake 19	150	No
30-Apr-24	KM 67, Lake 20	150	No
1-May-24	KM 15, Lake 6	150	No
23-Apr-24	KM 140	18	No
27-Apr-24	KM 90.5	18	No
26-Apr-24	KM 35, Lake 11	1	No
1-May-24	KM 51, Lake 14	2	Yes
24-Apr-24	KM 82	20	No
1-May-24	KM 98.5, Lake 32	20	Yes
28-Apr-24	KM 61, Lake 17	200	No
1-May-24	KM 71, Lake 21	200	No
23-Apr-24	KM 94	21	No
30-Apr-24	KM 63	23	No
30-Apr-24	KM 122/123, Lake 34	25	No
25-Apr-24	KM 147	250	Yes
30-Apr-24	KM 20.5, Lake 8B	3	No

APPENDIX E: WINTER ICE ROAD CARIBOU OBSERVATIONS, 2024

Date	Location	Group Size (Estimated for Groups >100)	Crossed WIR
29-Apr-24	KM 66, Lake 20	300	No
1-May-24	KM 72, Lake 21A	350	No
23-Apr-24	KM 70, Lake 20A	4	No
27-Apr-24	KM 1	50	No
29-Apr-24	KM 66, Lake 20	500	No
1-May-24	KM 78	500	No
28-Apr-24	KM 58, Lake 15A	600	No
1-May-24	KM 98	800	No

APPENDIX F FACILITIES CAMERA MONITORING DATA, 2024

APPENDIX F: FACILITIES CAMERA MONITORING DATA, 2024

Camera Location	DateTime	Species	Number of Adults	Number of Juveniles	Behaviour	Comments
BR01	1/3/2024 13:30	Raven	1	0	Flying	-
BR01	1/3/2024 15:23	Bird	2	0	Flying	Unknown species of bird
BR01	1/3/2024 15:23	Bird	2	0	Flying	Unknown species of bird
BR01	1/5/2024 11:09	Raven	1	0	Flying	-
BR02	1/5/2024 15:08	Raven	1	0	Interacting with infrastructure	-
BR02	1/5/2024 15:21	Raven	1	0	Flying	-
BR02	1/5/2024 15:45	Raven	1	0	Walking	-
BR02	1/6/2024 13:10	Raven	2	0	Flying	-
BR02	1/6/2024 14:59	Raven	1	0	Walking	-
BR02	1/7/2024 9:49	Raven	1	0	Resting	-
BR02	1/7/2024 11:15	Raven	1	0	Feeding	-
BR02	1/7/2024 11:53	Raven	1	0	Interacting with infrastructure	-
BR02	1/7/2024 15:00	Raven	1	0	Interacting with infrastructure	-
BR02	1/7/2024 17:55	Raven	1	0	Walking	-
BR02	1/27/2024 14:00	Raven	2	0	Interacting with infrastructure	-
BR02	1/27/2024 16:34	Raven	1	0	Interacting with infrastructure	-
BR02	2/11/2024 9:34	Raven	1	0	Standing	-
BR02	2/11/2024 13:47	Raven	1	0	Interacting with infrastructure	-
BR02	2/12/2024 9:00	Raven	1	0	Standing	-
BR02	2/12/2024 13:09	Raven	2	0	Walking	-
BR02	3/10/2024 15:00	Raven	1	0	Standing	-
BR02	4/5/2024 7:41	Raven	1	0	Walking	-
BR02	4/5/2024 9:52	Raven	2	0	Walking	-
BR02	4/5/2024 15:24	Red fox	1	0	Interacting with infrastructure	-
BR02	4/5/2024 15:55	Raven	1	0	Walking	-
BR02	4/5/2024 19:18	Raven	1	0	Walking	-
BR02	4/6/2024 10:15	Raven	2	0	Walking	-
BR02	4/6/2024 14:31	Wolverine	1	0	Interacting with infrastructure	-
BR02	4/6/2024 18:11	Raven	1	0	Walking	-
BR02	4/6/2024 23:39	Wolverine	1	0	Interacting with infrastructure	-
BR02	4/7/2024 10:48	Raven	1	0	Walking	-
BR02	4/7/2024 21:21	Wolverine	1	0	Walking	-

APPENDIX F: FACILITIES CAMERA MONITORING DATA, 2024

Camera Location	DateTime	Species	Number of Adults	Number of Juveniles	Behaviour	Comments
BR02	4/8/2024 0:56	Wolverine	1	0	Interacting with infrastructure	-
BR02	4/8/2024 3:54	Wolverine	1	0	Walking	-
BR02	4/8/2024 18:38	Raven	1	0	Walking	-
BR02	4/10/2024 20:00	Arctic hare	1	0	Feeding	-
BR02	4/12/2024 21:52	Arctic fox	1	0	Walking	-
BR02	4/14/2024 16:02	Raven	2	0	Standing	-
BR04	10/4/2024 16:11	Arctic hare	2	0	Feeding	-
BR04	10/8/2024 17:00	Arctic hare	1	0	Feeding	-
BR04	10/8/2024 17:30	Arctic hare	1	0	Feeding	-
BR04	10/11/2024 4:30	Arctic hare	1	0	Walking	-
BR04	10/17/2024 0:30	Arctic fox	1	0	Walking	-
BR04	10/20/2024 3:30	Arctic hare	1	0	Running	-
BR04	10/27/2024 11:00	Red fox	1	0	Walking	-
BR04	10/31/2024 21:33	Arctic hare	1	0	Walking	-
BR04	11/24/2024 21:44	Arctic fox	1	0	Walking	-
BR04	11/24/2024 22:30	Arctic fox	1	0	Walking	-
BR04	11/26/2024 1:41	Arctic fox	1	0	Walking	-
BR04	11/26/2024 13:47	Red fox	1	0	Walking	-
BR05	6/6/2024 16:31	Bird	2	0	Walking	Greater white-fronted goose
BR05	6/11/2024 10:06	Arctic hare	1	0	Walking	-
BR05	6/12/2024 23:22	Arctic hare	1	0	Walking	-
BR05	11/20/2024 13:24	Red fox	1	0	Walking	-
BR06	5/27/2024 14:04	Bird	1	0	Flying	-
BR06	4/29/2024 14:30	Wolverine	1	0	Walking	-
BR06	8/15/2023 15:16	Bird	2	0	Walking	Canadian goose
BR06	8/16/2023 10:11	Bird	1	0	Walking	Canadian goose
BR06	8/16/2023 11:57	Bird	2	0	Feeding	Canadian goose
BR06	8/16/2023 15:34	Bird	3	0	Feeding	Canadian goose
BR06	8/16/2023 19:38	Bird	5	0	Feeding	-
BR35	4/24/2024 13:23	Arctic hare	1	0	Running	-
BR35	4/26/2024 1:10	Arctic fox	1	0	Running	-
BR73	10/26/2024 9:49	Raven	1	0	Flying	-

APPENDIX F: FACILITIES CAMERA MONITORING DATA, 2024

Camera Location	DateTime	Species	Number of Adults	Number of Juveniles	Behaviour	Comments
BR75	10/24/2024 14:49	Raven	1	0	Flying	-
BR77	12/29/2024 11:07	Raven	1	0	Flying	-
BR77	11/13/2024 0:30	Red fox	1	0	Standing	-
BR77	11/11/2024 14:59	Raven	2	0	Interacting with infrastructure	-
BR77	11/11/2024 14:00	Raven	1	0	Flying	-
BR77	11/11/2024 11:19	Raven	2	0	Interacting with infrastructure	-
BR77	11/11/2024 10:47	Raven	1	0	Flying	-
BR77	11/11/2024 9:27	Raven	1	0	Flying	-
BR77	11/10/2024 14:46	Raven	2	0	Flying	-
BR77	11/10/2024 13:18	Raven	1	0	Interacting with infrastructure	-
BR77	11/10/2024 12:00	Raven	2	0	Standing	-
BR77	11/10/2024 9:00	Raven	1	0	Interacting with infrastructure	-
BR77	11/9/2024 15:01	Raven	3	0	Interacting with infrastructure	-
BR77	11/9/2024 10:00	Raven	1	0	Standing	-
BR77	11/7/2024 16:19	Raven	1	0	Interacting with infrastructure	-
BR77	11/7/2024 15:16	Raven	1	0	Standing	-
BR77	11/7/2024 12:46	Raven	1	0	Interacting with infrastructure	-
BR77	11/7/2024 12:00	Raven	1	0	Walking	-
BR77	11/7/2024 10:56	Raven	2	0	Walking	-
BR77	11/1/2024 10:46	Raven	1	0	Standing	-
BR77	10/31/2024 13:00	Raven	2	0	Standing	-
BR77	5/23/2024 13:37	Small mammal	1	0	Standing	-
BR77	5/23/2024 9:04	Arctic hare	2	0	Running	-
BR77	5/11/2024 18:52	Raven	1	0	Inspecting camera	-
BR77	5/10/2024 12:34	Raven	1	0	Interacting with infrastructure	-
BR77	5/10/2024 0:30	Raven	1	0	Interacting with infrastructure	-
BR77	5/9/2024 21:16	Raven	1	0	Interacting with infrastructure	-
BR78	4/23/2024 2:00	Arctic fox	1	0	Walking	-
BR78	4/25/2024 5:08	Arctic fox	1	0	Running	Person taking a photo of a fox, fox scared off
BR78	4/26/2024 8:53	Arctic hare	1	0	Walking	-
BR78	5/17/2024 9:23	Raven	1	0	Flying	-
BR78	5/17/2024 15:46	Raven	1	0	Walking	-

APPENDIX F: FACILITIES CAMERA MONITORING DATA, 2024

Camera Location	DateTime	Species	Number of Adults	Number of Juveniles	Behaviour	Comments
BR78	5/17/2024 16:25	Raven	1	0	Flying	-
BR78	5/18/2024 8:53	Bird	1	0	Flying	Unknown gull
BR78	5/21/2024 22:00	Arctic hare	1	0	Standing	Stading on road, moved off for truck
BR78	5/22/2024 16:05	Small mammal	1	0	Running	Running from truck
BR78	5/23/2024 16:30	Arctic hare	1	0	Running	-
BR78	5/23/2024 22:13	Arctic hare	1	0	Standing	-
BR78	5/26/2024 5:30	Arctic hare	1	0	Running	-
BR78	5/27/2024 20:44	Arctic hare	1	0	Running	-
BR78	5/27/2024 21:30	Arctic hare	1	0	Standing	-
BR78	5/27/2024 21:31	Arctic hare	1	0	Standing	Standing on side of road as trucks pass
BR78	5/30/2024 8:01	Arctic hare	1	0	Standing	-
BR78	5/30/2024 21:53	Arctic hare	1	0	Standing	-
BR78	6/1/2024 0:52	Arctic hare	1	0	Running	-
BR78	6/1/2024 18:39	Arctic hare	1	0	Running	Scared off road by truck
BR78	6/1/2024 19:58	Arctic hare	2	0	Standing	Scared off road by truck
BR78	6/2/2024 19:19	Arctic hare	1	0	Running	-
BR78	6/3/2024 1:17	Arctic hare	1	0	Running	-
BR78	6/4/2024 5:32	Arctic hare	1	0	Running	-
BR78	6/4/2024 21:30	Arctic hare	1	0	Standing	-
BR78	6/9/2024 23:53	Arctic hare	1	0	Running	-
BR78	6/13/2024 2:02	Arctic hare	1	0	Standing	-
BR78	6/13/2024 4:08	Arctic hare	1	0	Running	-
BR78	6/14/2024 2:30	Arctic hare	1	0	Standing	-
BR78	6/14/2024 23:32	Arctic hare	1	0	Running	-
BR78	6/16/2024 21:37	Arctic hare	1	0	Running	-
BR78	6/17/2024 22:51	Arctic hare	1	0	Running	-
BR78	6/18/2024 22:12	Arctic hare	1	0	Walking	-
BR78	6/21/2024 2:30	Ptarmigan	1	0	Standing	-
BR78	6/21/2024 22:12	Arctic hare	1	0	Walking	Scared off road by truck
BR78	6/21/2024 23:44	Arctic hare	1	0	Walking	-
BR78	6/22/2024 7:37	Arctic hare	1	0	Walking	-
BR78	6/22/2024 22:26	Arctic hare	1	0	Walking	-

APPENDIX F: FACILITIES CAMERA MONITORING DATA, 2024

Camera Location	DateTime	Species	Number of Adults	Number of Juveniles	Behaviour	Comments
BR78	6/24/2024 3:07	Arctic hare	1	0	Walking	-
BR78	6/24/2024 10:44	Arctic hare	1	0	Running	-
BR78	6/24/2024 11:47	Arctic hare	1	0	Standing	-
BR78	6/25/2024 0:55	Ptarmigan	2	0	Standing	-
BR78	6/25/2024 23:31	Arctic hare	1	0	Running	-
BR78	6/26/2024 3:35	Arctic hare	1	0	Running	-
BR78	6/27/2024 3:08	Arctic hare	1	0	Running	-
BR78	6/29/2024 8:57	Bird	1	0	Flying	Unknown bird
BR78	10/6/2024 7:37	Raven	1	0	Flying	-
BR78	10/7/2024 7:44	Arctic hare	2	0	Standing	-
BR78	10/10/2024 6:48	Arctic hare	1	0	Walking	Scared off road by truck
BR78	10/10/2024 11:58	Raven	1	0	Standing	-
BR78	10/12/2024 18:33	Arctic hare	1	0	Standing	-
BR78	10/14/2024 16:32	Raven	2	0	Flying	-
BR79	4/26/2024 4:30	Arctic hare	1	0	Walking	-
BR79	4/30/2024 8:30	Raven	1	0	Flying	-
BR79	5/17/2024 12:00	Raven	1	0	Standing	-
BR79	5/18/2024 23:53	Arctic hare	1	0	Feeding	-
BR79	5/19/2024 16:59	Raven	1	0	Flying	-
BR79	5/22/2024 1:00	Arctic hare	1	0	Standing	-
BR79	5/29/2024 10:07	Ptarmigan	1	0	Standing	-
BR79	5/29/2024 11:38	Ptarmigan	1	0	Walking	-
BR79	6/3/2024 16:59	Arctic hare	1	0	Running	-
BR79	6/6/2024 8:27	Ptarmigan	1	0	Flying	-
BR79	10/7/2024 16:25	Arctic hare	1	0	Running	-
BR79	10/16/2024 8:13	Raven	1	0	Flying	-
BR79	11/1/2024 1:30	Raven	1	0	Standing	-
BR79	11/2/2024 11:45	Raven	1	0	Standing	-
BR79	11/8/2024 10:23	Raven	1	0	Standing	-
BR79	11/9/2024 15:30	Raven	1	0	Flying	-
BR79	11/10/2024 9:46	Raven	1	0	Standing	-
BR79	11/10/2024 13:45	Raven	1	0	Standing	-

APPENDIX F: FACILITIES CAMERA MONITORING DATA, 2024

Camera Location	DateTime	Species	Number of Adults	Number of Juveniles	Behaviour	Comments
BR79	11/10/2024 14:37	Raven	2	0	Interacting with infrastructure	-
BR79	11/10/2024 16:25	Raven	1	0	Interacting with infrastructure	-
BR79	11/10/2024 20:47	Raven	2	0	Walking	-
BR79	11/10/2024 20:49	Arctic fox	1	0	Walking	-
BR79	11/10/2024 20:49	Arctic fox	1	0	Walking	-
BR79	11/10/2024 23:14	Red fox	1	0	Feeding	-
BR79	11/11/2024 7:51	Arctic fox	1	0	Running	-
BR79	11/11/2024 8:36	Raven	3	0	Standing	-
BR79	11/11/2024 9:48	Raven	1	0	Standing	-
BR79	11/11/2024 10:45	Raven	1	0	Interacting with infrastructure	-
BR79	11/11/2024 13:22	Raven	1	0	Standing	-
BR79	11/11/2024 14:27	Raven	2	0	Interacting with infrastructure	-
BR79	11/11/2024 15:25	Raven	2	0	Flying	-
BR79	11/12/2024 9:08	Raven	3	0	Standing	-
BR79	11/12/2024 10:58	Raven	1	0	Flying	-
BR79	11/12/2024 11:18	Raven	1	0	Flying	-
BR79	11/12/2024 14:22	Raven	1	0	Interacting with infrastructure	-
BR79	11/12/2024 18:06	Red fox	1	0	Running	-
BR79	11/13/2024 9:42	Raven	1	0	Standing	-
BR79	11/13/2024 11:58	Raven	1	0	Standing	-
BR79	11/14/2024 8:54	Raven	2	0	Standing	-
BR79	11/14/2024 12:50	Raven	1	0	Flying	-
BR79	11/15/2024 10:31	Raven	2	0	Flying	-
BR79	11/15/2024 10:51	Raven	1	0	Standing	-
BR79	11/15/2024 14:23	Raven	1	0	Flying	-
BR79	11/27/2024 13:26	Raven	3	0	Flying	-
BR79	11/27/2024 14:00	Raven	1	0	Standing	-
BR79	11/27/2024 14:08	Raven	1	0	Standing	-
BR79	11/28/2024 9:00	Raven	3	0	Standing	-
BR79	11/28/2024 10:00	Raven	1	0	Standing	-
BR79	11/28/2024 11:30	Raven	3	0	Flying	-
BR79	11/28/2024 12:47	Raven	1	0	Standing	-

APPENDIX F: FACILITIES CAMERA MONITORING DATA, 2024

Camera Location	DateTime	Species	Number of Adults	Number of Juveniles	Behaviour	Comments
BR79	11/28/2024 16:05	Raven	2	0	Flying	-
BR79	11/29/2024 10:26	Raven	2	0	Standing	-
BR79	11/29/2024 15:30	Raven	1	0	Flying	-
BR79	11/30/2024 10:33	Red fox	1	0	Walking	-
BR79	12/2/2024 12:30	Raven	2	0	Standing	-
BR79	12/5/2024 11:47	Raven	1	0	Standing	-
BR79	12/5/2024 14:29	Raven	1	0	Standing	-
BR79	12/5/2024 15:30	Raven	1	0	Standing	-
BR79	12/11/2024 10:30	Raven	2	0	Standing	-
BR79	12/12/2024 12:00	Raven	1	0	Flying	-
BR79	12/14/2024 20:41	Red fox	1	0	Running	-
BR79	12/15/2024 9:52	Arctic fox	1	0	Walking	-
BR79	12/17/2024 10:37	Red fox	1	0	Walking	-
BR79	12/17/2024 12:36	Red fox	1	0	Walking	-
BR79	12/24/2024 19:02	Red fox	1	0	Walking	-
BR79	12/25/2024 22:16	Red fox	1	0	Walking	-
BR79	12/26/2024 9:04	Raven	1	0	Standing	-
BR79	12/26/2024 14:11	Red fox	1	0	Walking	Has something in mouth, most likely taken from camp
BR79	12/26/2024 15:30	Raven	1	0	Standing	-
BR73	10/4/2024 9:30	Raven	1	0	Standing	-
BR73	9/30/2024 15:55	Bird	1	0	Flying	-
BR73	9/27/2024 16:30	Raven	1	0	Flying	-
BR73	8/22/2024 7:50	Caribou	1	0	Walking	And 3 vehicles
BR73	8/19/2024 10:32	Caribou	2	0	Walking	-
BR73	8/19/2024 7:00	Small mammal	1	0	Walking	Ground squirrel
BR73	8/11/2024 15:00	Raven	1	0	Interacting with infrastructure	-
BR73	8/11/2024 9:44	Caribou	1	0	Walking	-
BR73	8/4/2024 15:56	Caribou	3	0	Walking	-
BR73	8/1/2024 11:02	Caribou	1	0	Walking	-
BR73	7/29/2024 10:52	Caribou	1	0	Walking	-
BR73	7/27/2024 18:30	Caribou	1	0	Feeding	-
BR73	7/27/2024 2:00	Caribou	1	0	Feeding	-

APPENDIX F: FACILITIES CAMERA MONITORING DATA, 2024

Camera Location	DateTime	Species	Number of Adults	Number of Juveniles	Behaviour	Comments
BR73	7/25/2024 20:10	Caribou	1	0	Walking	-
BR73	7/25/2024 19:08	Caribou	1	0	Interacting with infrastructure	-
BR73	7/25/2024 7:00	Arctic fox	1	0	Running	-
BR73	7/24/2024 21:23	Caribou	1	0	Walking	-
BR73	7/23/2024 5:02	Caribou	1	0	Walking	-
BR73	7/22/2024 9:53	Caribou	1	0	Walking	-
BR73	7/20/2024 17:58	Caribou	1	0	Walking	-
BR73	7/20/2024 17:40	Bird	1	0	Flying	-
BR73	7/20/2024 11:34	Caribou	3	0	Walking	-
BR73	7/17/2024 9:03	Caribou	1	0	Walking	-
BR73	7/14/2024 17:06	Raven	1	0	Flying	-
BR73	4/25/2024 10:36	Ptarmigan	3	0	Flying	-
BR73	4/11/2024 11:36	Raven	1	0	Flying	-
BR73	4/6/2024 15:00	Raven	1	0	Interacting with infrastructure	Sitting on cribbing
BR73	4/5/2024 14:44	Raven	1	0	Flying	-
BR73	3/26/2024 14:16	Raven	1	0	Flying	-
BR73	3/26/2024 8:28	Raven	1	0	Interacting with infrastructure	-
BR73	3/22/2024 17:21	Raven	1	0	Flying	-
BR73	3/22/2024 14:31	Raven	1	0	Interacting with infrastructure	-
BR73	3/21/2024 16:43	Raven	1	0	Flying	-
BR73	3/17/2024 15:32	Raven	1	0	Flying	-
BR74	10/21/2024 23:30	Arctic hare	1	0	Standing	-
BR74	9/28/2024 8:30	Caribou	1	0	Walking	-
BR74	8/7/2024 23:00	Arctic hare	2	0	Walking	-
BR74	8/4/2024 13:30	Bird	18	0	Resting	Canadian Geese
BR74	8/4/2024 9:00	Bird	15	0	Resting	Canadian Geese
BR74	7/29/2024 12:00	Bird	15	0	Resting	Canadian Geese
BR74	7/25/2024 7:00	Arctic fox	1	0	Walking	-
BR74	5/30/2024 7:00	Caribou	1	0	Walking	-
BR74	2/29/2024 13:00	Ptarmigan	8	0	Standing	-
BR75	2/16/2024 16:35	Raven	1	0	Flying	-

Note: '-' denotes where no details were recorded in the datasheet.

APPENDIX G REGIONAL CAMERA MONITORING PROGRAM, METHODS AND RESULTS, 2024

APPENDIX G: REGIONAL CAMERA MONITORING PROGRAM METHODS AND RESULTS, 2024

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1. METHODS

An initial exploratory analysis was conducted to visualize the data, screen for errors, and determine the appropriate method for analysis. Two methods were used to test the effects of distance from infrastructure at the Mine on wildlife occurrence: occupancy models and generalized linear mixed models (GLMMs). To account for decreased camera operability during the winter, including partially obscured fields of view for a number of cameras, data used to fit caribou models under both frameworks were filtered to exclude the period from November 6 to April 14. This prevented artificial inflation of zero's (weeks with no detection) in the data while also corresponding to the period caribou were observed on cameras.

1.1 OCCUPANCY MODELS

Occupancy models were used to test the effects of the categorical zones around the Mine (treatment, ZOI, and control) as well as continuous distance from Mine infrastructure at the weekly scale. Single-season occupancy models were used to generate a probability of occupancy at a camera site for a species during the given period (each week), while also accounting for imperfect detectability (a species at the site, but not detected), and covariates that might affect either occupancy or detection. A Bayesian approach to model fitting, using efficient Markov Chain Monte Carlo (MCMC) methods and allowing additional flexibility in modelling approach was applied.

For each species with enough detections, three models were tested: 1) a null model, 2) a model where occupancy probability is based on the categorical zone of each camera, and 3) a model where occupancy probability depends on the continuous distance from the Mine. Model selection between candidate models was conducted through use of the Widely Applicable Information Criterion (WAIC; Watanabe 2010), where models within two WAIC are considered equally explanatory. Model fit was assessed via posterior predictive checks and generation of the Bayesian p-value using the Freeman-Tukey fit statistic, while convergence of the model was assessed via calculation of Rhat (Vehtari et al. 2021).

1.2 GENERALIZED LINEAR MIXED MODELS

Where data allowed, GLMMs were used to assess differences in the number of detection events for each species at the weekly scale as a function of various controlling variables, including: categorical zones around the mine (treatment, ZOI, and control), continuous distance from infrastructure, and vegetative productivity as measured using 16-day Normalized Difference Vegetation Indices (NDVI) at a 250 m scale around each camera using the MODIS MOD13Q1 product (Didan 2021), and a combination of the latter two covariates. A random effect was included for the unique camera location to account for repeated measures at each camera, and a negative binomial distribution was specified to account for overdispersion in the response variable. This regression framework provides a means to control for environmental variables, proximity to the Mine, repeated measurements, and spatial correlation. All continuous predictors were scaled and centered around the mean to increase model convergence.

Model fit was assessed qualitatively using quantile-quantile plots of the residuals and checking for overdispersion using the dispersion factor (with values below 1.4 suggesting no significant overdispersion). The marginal coefficient of determination (pseudo R²) was also calculated using the lognormal method, providing an interpretation of the variance explained by the fixed effects in the model (i.e., models with values closer to one are more explanatory of the response; Nakagawa et al. 2017).

Multiple candidate GLMMs were constructed, and model selection was conducted via the Akaike Information Criterion (AIC). AIC is a number that is helpful for comparing models, as it includes measures of both how well the model fits the data and how complex the model is (simpler is usually better). The top models were identified as having a low AIC and were within a two-unit difference in AIC ($\Delta\text{AIC} \leq 2$) of the top ranked model (i.e., the model with the lowest AIC; Burnham & Anderson 2004). This is the industry standard for identifying models that are essentially equally good at explaining the data.

To account for decreased camera operability during the winter, including partially obscured fields of view for a number of cameras, data used to fit caribou models under both frameworks were filtered to exclude the period from November 6 to April 14. This prevented artificial inflation of zero's (weeks with no detection) in the data; while also corresponding to the period caribou were observed on cameras. For other species all data collected throughout the year were included in models.

All analyses were conducted using program R version 4.4.2 (R Core Team 2024). GLMM analyses were conducted using the package lme4 (Bates et al. 2015), and occupancy analyses were conducted using the package spOccupancy (Doser et al. 2022). NDVI was extracted for each site-week combination using the modisfast R package (Taconet and Moiroux 2024).

Where sufficient detections were not available to achieve model convergence for a species, descriptive summary results were provided (all species other than caribou).

2. RESULTS AND DISCUSSION

2.1 OCCUPANCY MODELS

Three candidate occupancy models were run for caribou at the weekly scale, with each model successfully converging as assessed by Rhat (all values <1.05) and trace plots of the posteriors. Models did not converge for all other species tested. Table G-1 summarizes the model selection parameters (WAIC) and fit statistic (Bayesian p-value) for each caribou candidate model.

TABLE G-1: CARIBOU OCCUPANCY MODEL SELECTION PARAMETERS AND FIT STATISTICS

Model Description	WAIC	Bayesian p-value
Null	1925.77	0.024
Categorical Distance	1926.37	0.022
Continuous Distance	1926.45	0.024

All three of the caribou candidate models are within two WAIC suggesting limited differences in explanatory power between them. Additionally, the Bayesian p-value's derived for each model are low (0.022 – 0.024), reflecting a poor level of explanatory power (values close to 0.5 are considered highly predictive; Gelman 2013). As the two models containing covariates for distance from the Mine were not more predictive than the null model, this modelling approach was deemed uninformative for caribou with the amount of data currently available after one year of sampling. Future occupancy modelling attempts integrating additional years of data may allow further inference as to caribou occurrence related to distance from the Mine.

2.2 GENERALIZED LINEAR MIXED MODELS

Four candidate GLMMs were run for caribou at the weekly scale. Table G-2 summarizes the model selection parameters (AIC) and fit statistic (pseudo R^2) for each candidate model. The results in Table G-3 reflect that the model containing covariates for continuous distance from the Mine and NDVI (vegetative productivity) is more strongly explanatory than any of the other candidate GLMMs, with an AIC value 19.8 lower than the next best model. The pseudo R^2 value of 0.36 for this model suggests a moderate explanatory power. Table G-3 provides a summary of this model, including the estimated incidence rate for each fixed effect.

Incidence rates reflect the likelihood of a caribou occurring in a given week as each covariate increases. In the case of the top caribou GLMM, an incidence rate less than one suggests that as distance to the Mine increases, caribou are less likely to be observed. Where NDVI values are higher, caribou are more likely to be detected at a site in a given week. Both the continuous distance to infrastructure and NDVI covariates are statistically significant (p-values less than 0.05). The pseudo R^2 value of 0.36 for this model reflects that approximately 64% of the variation in the model remains unexplained after considering these covariates, suggesting that other factors may contribute to caribou habitat selection and use.

TABLE G-2: CARIBOU GENERALIZED LINEAR MIXED MODEL SELECTION PARAMETERS AND FIT STATISTICS

Model Description	AIC¹	Pseudo R² ²
Continuous Distance + NDVI	3431.23	0.36
NDVI	3451.03	0.31
Continuous Distance	3593.26	0.10
Categorical Distance	3603.70	0.06

¹ AIC is used to select the best fitting model, while accounting for model complexity. Lower values are better, with differences of two or more suggesting a difference between model fit.

² Pseudo R² represents the variance explained by a model, with values closer to one being more strongly explanatory.

TABLE G-3: TOP CARIBOU GENERALIZED LINEAR MIXED MODEL SUMMARY

Effect Type	Covariate	Estimate (Incidence Rate)	SE	p-value
Fixed	Intercept	0.55	1.095	<0.001
	Distance to Infrastructure	0.65	1.095	<0.001
	NDVI	2.44	1.073	<0.001
Random		Variance	Std. Deviation	
	Camera Site	1.29	1.65	

Based on these model results, no ZOI was detectable for caribou around the Mine, with increased likelihood of caribou use at sites closer to the Mine. Further, NDVI appears to be a strong predictor of caribou habitat use, reflecting an index of forage availability for this species linked to seasonal green up and vegetation patterns.

Due to a low number of detections for species other than caribou, statistical models were not able to converge for muskox, grizzly bear, or wolverine. Summary results are provided in the respective species sections in the main text.

3. REFERENCES

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APPENDIX H REGIONAL CARIBOU COLLAR
MONITORING PROGRAM METHODS
AND RESULTS, 2024

APPENDIX H: REGIONAL CARIBOU COLLAR MONITORING PROGRAM METHODS AND RESULTS, 2024

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1. METHODS

1.1 COLLAR DATA

Regional collar data for the Bathurst and Beverly/Ahiak herds was provided via Data Sharing Agreement with the GNWT, encompassing location data from 1996 to 2024. Data for this analysis were filtered to 2017 onwards, and cleaned to remove data with errors including erroneous frequency (i.e. points obtained in rapid succession or with very long gaps), unrealistic incoming/outgoing speeds, unexpected jumps in location, and points following the mortality of an individual caribou.

As different patterns of seasonal movement, and thus different patterns in expected interaction with the Mine are anticipated, regional collar analysis was conducted separately for the Bathurst herd and Beverly/Ahiak herds. Similarly, seasonal differences in both migratory movements and the frequency of caribou occurrence in proximity to the Mine support the use of seasonal models to increase model accuracy. Appropriate seasonal periods were determined by assessing the frequency of proximity to the Mine (Goose or the WIR) throughout the year. For Bathurst caribou, we identified a 'spring' window spanning March 1 (during late winter) to June 1 (marking the end of the spring migration). For Beverly/Ahiak caribou we identified a 'spring' window spanning March 1 (during late winter) to June 6 (at the end of spring migration, and a 'summer' window spanning July 9th (the beginning of summer) to October 21 (during fall migration, before commencing rutting). All processed GPS collar fixes within these windows in addition to those within a seven-day buffer before and after the window were considered for analysis.

This resulted in five analysis datasets: three Beverly/Ahiak ZOI models (spring-Goose, spring-WIR, and summer-Goose) and two Bathurst ZOI models (spring-Goose and spring-WIR). There were limited summer interactions with the Mine by the Bathurst herd.

Collar locations in each herd-season subset were then assessed to determine if they may interact with the Mine or WIR. This was achieved by buffering each point by a 'radius of availability' following Johnson et al. (2005) and Boulanger et al. (2012), and was used to subset the data into final analysis sets. The radius of availability approach consisted of the following steps:

- First, determine step length taken from each point to its successive point.
- Group all step-lengths into categorical bins of 1 hour, 2 hours, 4 hours, 8 hours, 1 day, 2 days, > 2 days.
- Calculate the 95th percentile of step lengths in each bin.
- Buffer each point by the 95th percentile base on its step length, defining its 'radius of availability', i.e. the radius of possible locations the caribou could have moved to between the current and subsequent GPS observation.
- Any point with a 'radius of availability' buffer that intersected a project feature was considered to have interacted with the feature.
- Any individual caribou that interacted with a feature once or more within the seasonal subset were retained for analysis. If no possible interactions were recorded, data for that individual caribou-year combination were excluded from consideration.
- Finally, these datasets were further screened to only include fixes within a 100km buffer of a combined mine-WIR footprint. This focuses the analysis on local selection (avoiding population/herd level selection at broader distances) and provided a feasible data set for obtaining environmental data.
- The final subset included Bathurst-Spring-Goose (n = 1,880 collar fixes), Bathurst-Spring-WIR (n = 5,001), Beverly/Ahiak-Spring-Goose (n = 3,830), Beverly/Ahiak-Spring-WIR (n = 10,054), Beverly/Ahiak-Summer-Goose (n = 281).

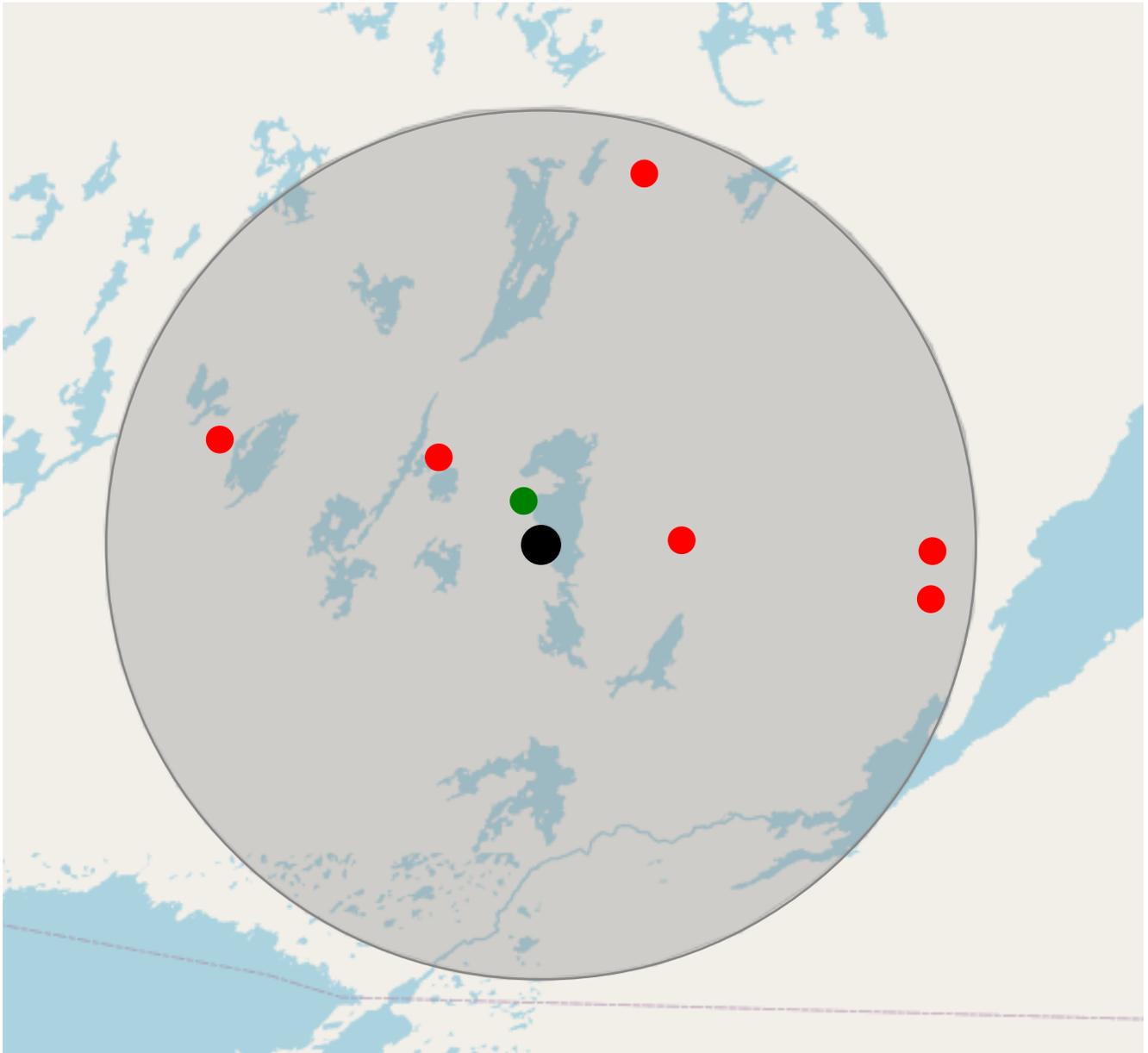
Each location in the final subset is considered to have been 'used' by caribou. Habitat selection models rely on comparing habitat at used locations with habitat in potentially available but unused locations. For each 'used' location, we randomly sampled six 'available' locations from within the radius of availability buffer. Available locations for each used location are those that were available from the previous GPS fix. This corresponds to other locations the caribou could have chosen to be instead of its current location. This is demonstrated in Figure H-1, where the caribou moved from the black point to the green point between successive fixes. It could have moved to any location within the grey radius of availability buffer, which is represented by the six random point samples shown in red.

1.2 ENVIRONMENTAL COVARIATES

A suite of environmental data were extracted to characterize a 1 km buffer around all used and available points. These were used to describe caribou habitat selection in the base habitat model. The environmental data used includes:

- The proportion of 15 different land cover classes, sourced from the 2020 Land Cover of Canada map (2020 Land Cover of Canada - GEO.CA Viewer) with pixels provided at a 30 m spatial resolution.
- The proportion of eskers within the 1 km buffer.
- The mean annual NDVI (sourced from the MODIS MOD13AQ1 product), extracted via the modisfast R package as described in Section 3.8.

FIGURE H-1 HABITAT SELECTION MODEL, USED VS. AVAILABLE LOCATION EXAMPLE



1.3 BASE HABITAT SELECTION MODELS

We built base habitat models for each herd-season-feature (Goose or WIR) subset by comparing used and available point location data from all years. All habitat models were fit as conditional logistic regressions using the clogit function from the survival R package (Therneau 2024). This approach employs a binary used (1) or available (0) response variable for each point location. Each set of one used and six available points (as shown in Figure 3.9-1) is included as a combined strata, and each individual collar ID-year combination as a cluster to make appropriate comparisons of habitat at corresponding used and available locations following Boulanger et al. (2012) and Boulanger et al. (2021).

For each land cover variable (each of 15 land cover classes, and esker length) we fit a simple univariate model that considered the main effect of the habitat variable as well as its possible interaction with NDVI within the 1 km buffer around each point. We also considered the polynomial of each land cover variable to account for the possibility that selection would be stronger at intermediate values. For example, for shrub cover we fit the model:

$$used.num \sim shrub_cover + ndvi.250\ m + I(shrub_cover^2) + (shrub_cover:ndvi.250\ m) + strata(strata) + cluster(cluster)$$

This was repeated for all land cover variables. All significant terms from univariate models were identified and compiled into a final multivariate model. In instances where only the polynomial or interaction terms were significant, the non-significant main effects were also included in the multivariate model to ensure accurate parameter interpretation. Parameter significance was assessed using robust Z-tests, and coefficient estimates are presented as odds ratios, indicating the effect of each predictor on the odds of habitat selection.

1.4 ZONE OF INFLUENCE MODELLING

Potential ZOIs were evaluated following the approach of Boulanger et al. (2012). This included use of segmented regression, with a distance from infrastructure variable added on top of the multivariate base habitat model. The variable remains unchanged from a value of 0 to the given cut point, then is held constant at that cut point. The log-likelihood of models with distance variables across a range of cut point values from 500 m to 60 km in 500 m increments were compared. Increases in likelihood profile suggest a change in habitat selection at the cut point distance, and can indicate a ZOI.

The ZOI modelling process was completed separately for control and impact subsets of caribou collar data. For assessments of Mine footprint effects, data were grouped into pre-construction (≤ 2022) and construction (2023-2024) sets, with separate cutpoint likelihood profiles generated for each. Similarly, for assessment of WIR effects, data were grouped into road open (2019, 2022, 2023, 2024) and road closed (all other years 2017 onwards) subsets. Likelihood profiles for each subset were qualitatively compared for differences.

For the Beverly/Ahiak-Summer-Goose subset, there were not sufficient construction phase observations to re-fit the models, so only pre-construction data were evaluated. Post construction models will be refit for this subset in future, when sufficient collar data become available.

2. RESULTS AND DISCUSSION

2.1 BASE HABITAT MODELS

Base habitat models were successfully developed for herd-season-infrastructure (Goose or WIR) combination, providing a baseline understanding of caribou use of the area within 100 km of the Mine and WIR. Habitat models largely varied in final covariates and complexity, ranging from a simple three-term model for Bathurst caribou in the spring near the Mine (reflecting increased selection of areas with higher NDVI, and lower selection of areas with more wetland type habitat) to complex for Beverly/Ahiak caribou in the spring near the WIR (a 13-term polynomial model including interaction and non-linear terms) (Tables H-1 to H-5).

The large discrepancies between the most supported habitat models for each herd-season-infrastructure combination suggest that there are likely to be other environmental factors shaping caribou habitat use not included in these models. ZOI modelling requires an extremely strong base habitat model to provide a reliable signal of any effect from the expected influential factor (the Mine or WIR in this case), which was not able to be achieved in this analysis with the environmental data available for modelling at this scale near the Mine.

TABLE H-1: BASE HABITAT SELECTION MODEL FOR BATHURST CARIBOU IN SPRING THAT INTERACTED WITH THE MINE FOOTPRINT

Habitat Variable	Estimate	Std. Error	Robust Std. Error	Z-Statistic	P Value
Wetland	-0.031	0.042	0.038	-0.815	0.415
NDVI	0.046	0.073	0.160	0.287	0.774
NDVI x (Wetland)	-0.102	0.038	0.037	-2.779	0.005

TABLE H2: BASE HABITAT SELECTION MODEL FOR BATHURST CARIBOU IN SPRING THAT INTERACTED WITH THE WINTER ICE ROAD FOOTPRINT

Habitat Variable	Estimate	Std. Error	Robust Std. Error	Z-Statistic	P Value
(Sub-polar or polar shrubland-lichen-moss) ²	-0.053	0.021	0.030	-1.780	0.075
Wetland	-0.076	0.032	0.043	-1.758	0.079
Temperate or sub-polar needleleaf forest	-0.018	0.028	0.029	-0.633	0.527
NDVI	0.070	0.084	0.122	0.571	0.568
Sub-polar or polar shrubland-lichen-moss	0.012	0.033	0.068	0.179	0.858
NDVI x (Temperate or sub-polar needleleaf forest)	0.060	0.025	0.026	2.345	0.019

TABLE H3: BASE HABITAT SELECTION MODEL FOR BEVERLY/AHIAK CARIBOU IN SPRING THAT INTERACTED WITH THE MINE FOOTPRINT

Habitat Variable	Estimate	Std. Error	Robust Std. Error	Z-Statistic	P Value
NDVI	0.164	0.058	0.058	2.822	0.005
Sub-polar or polar grassland-lichen-moss	0.047	0.028	0.033	1.441	0.150
Wetland	-0.091	0.030	0.030	-3.000	0.003
NDVI x (Sub-polar or polar grassland-lichen-moss)	-0.069	0.026	0.029	-2.385	0.017

TABLE H4: BASE HABITAT SELECTION MODEL FOR BEVERLY/AHIAK CARIBOU IN SPRING THAT INTERACTED WITH THE WINTER ICE ROAD FOOTPRINT

Habitat Variable	Estimate	Std. Error	Robust Std. Error	Z-Statistic	P Value
Sub-polar or polar shrubland-lichen-moss	0.133	0.052	0.070	1.894	0.058
(Sub-polar or polar shrubland-lichen-moss)^2	-0.014	0.019	0.024	-0.572	0.567
Sub-polar or polar grassland-lichen-moss	0.195	0.050	0.071	2.758	0.006
NDVI	-0.162	0.065	0.114	-1.421	0.155
(Sub-polar or polar grassland-lichen-moss)^2	-0.033	0.015	0.022	-1.505	0.132
(Water)^2	-0.035	0.008	0.012	-2.982	0.003
Wetland	-0.285	0.044	0.064	-4.480	0.000
(Wetland)^2	0.026	0.007	0.008	3.259	0.001
Barren lands	0.176	0.039	0.068	2.573	0.010
(Barren lands)^2	-0.029	0.007	0.012	-2.456	0.014
Water	0.138	0.040	0.054	2.557	0.011
NDVI x (Sub-polar or polar grassland-lichen-moss)	-0.073	0.019	0.032	-2.320	0.020
NDVI x (Wetland)	0.046	0.021	0.021	2.206	0.027

TABLE H5: BASE HABITAT SELECTION MODEL FOR BEVERLY/AHIAK CARIBOU IN SUMMER THAT INTERACTED WITH THE MINE FOOTPRINT

Habitat Variable	Estimate	Std. Error	Robust Std. Error	Z-Statistic	P Value
(Sub-polar or polar shrubland-lichen-moss)^2	-0.368	0.088	0.138	-2.673	0.008
NDVI	0.572	0.155	0.090	6.358	0.000
Water	0.551	0.084	0.250	2.206	0.027
(Sub-polar taiga needleleaf forest)^2	-0.121	0.054	0.016	-7.466	0.000

Habitat Variable	Estimate	Std. Error	Robust Std. Error	Z-Statistic	P Value
Sub-polar taiga needleleaf forest	-1.160	0.449	0.425	-2.726	0.006
Sub-polar or polar shrubland-lichen-moss	0.199	0.132	0.260	0.764	0.445
NDVI x (Sub-polar taiga needleleaf forest)	1.122	0.299	0.250	4.480	0.000

2.2 ZONE OF INFLUENCE MODELS

Log-likelihood profiles were compared for before and during construction of the Mine (operating and non-operating for the WIR), for each herd-season-infrastructure combination, with the exception of that Beverly/Ahiak herd in summer at the Mine, where there was not enough data available during the construction phase to allow model convergence. Likelihood profiles for each combination were highly irregular, with multiple peaks in likelihood precluding identification of natural patterns in use prior to construction of the Mine or operation of the WIR. Similarly, ZOI estimates were not able to be reliably estimated due to poor explanatory power of the base habitat models. Boulanger et al. (2012) states that: “an irregular shaped likelihood curve, or a curve without a peak indicated that other spatial factors were influencing caribou selection relative to the mine (and which were not already accounted for in the base habitat model).”

For this method to be truly informative, the base habitat model must encompass essentially all processes explaining habitat selection across the entirety of the area studied (a 100 km radius in this case). A perfect habitat model would allow comparison of the distance to infrastructure as the only remaining unexplained process; however, a base model of this level is extremely difficult to achieve given the available ecosystemic data and scientific understanding relating to caribou habitat selection. Where unexplained processes (geologic, vegetative, topographic, or otherwise) covary with distance from infrastructure, as is observed in the Back River RSA, the distance cutpoint variable used to estimate ZOI is likely to lead to inconsistent variation in log-likelihoods.

While this method was not successful in providing an estimated ZOI with the available data, the WMMP Plan (B2Gold 2024) includes re-assessment of the potential ZOI every three years. With this in mind, new data sources for environmental covariates to improve base habitat models will be investigated. Additionally, new methods beyond those used by Boulanger et al. (2012) will be investigated for potential improved explanatory power relating to ZOI's around the Mine for caribou.

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APPENDIX I INCIDENTAL WILDLIFE OBSERVATIONS, 2024

APPENDIX I: INCIDENTAL WILDLIFE OBSERVATIONS, 2024

Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
15-Jul-24	B2Gold Nunavut	Goose Lower camp	100	-	2	Observation	Caribou	Walking between Major and Echo runway	Colin Vandermeear
7-Jul-24	B2Gold Nunavut	MLA Fuel Tanks	500	-	7	Observation	Caribou	Feeding	-
11-Sep-24	B2Gold Nunavut	Goose Main Camp	0	-	1	Observation	Ptarmigan	Found on top of roof. Likely dropped by a predatory bird and abandoned body. Removed body and was taken to the incinerator	Jane Quackenbush
12-Sep-24	B2Gold Nunavut	Goose Road Machine Pad	0	-	1	Observation	Hare	Dead beside haul road. Removed body and brought to Incinerator	Jane Quackenbush
1-Jul-24	B2Gold Nunavut	Goose Lower camp	0	-	1	Observation	Caribou	Resting/ feeding behind major shop.	Mike E
6-Jul-24	B2Gold Nunavut	Goose Airstrip	1	-	1	Observation	Caribou	Caribou running away from something - assuming wolf	Chris LeGoffe
21-Apr-24	B2Gold Nunavut	Goose Lower camp	5	-	1	Observation	Wolverine	-	Rob Davidson
20-Jul-24	B2Gold Nunavut	Goose Major	10	-	1	Observation	Caribou	A calf was just laying down by Major drilling	Abigail Amo & Adam
21-Apr-24	B2Gold Nunavut	Goose Lower camp	50	-	-	Sign	Tracks - Wolverine	Wolverine tracks found in the morning around incinerator	Ben Beault
19-Dec-24	B2Gold Nunavut	MLA Aviation Shop	50	-	1	Observation	Unspecified Fox	Sniffing Around	Kenny
14-Mar-24	B2Gold Nunavut	Goose Lower camp	91.4	-	1	Observation	Wolverine	Notified Christian with Enviro. on Goose Lake	Colin Vandermet
11-Apr-24	B2Gold Nunavut	Goose Old Camp Incinerator	100	-	1	Observation	Wolverine	Hazed with a single shot of banger. Moved it off to the South end of airstrip and eventually over ride to South West	Rob Davidson
2-Jul-24	B2Gold Nunavut	Goose Airstrip	200	-	1	Observation	Caribou	Grazing near major laydown, no collar.	Colin Vandermeer (Flight Ops)
13-May-24	B2Gold Nunavut	Goose	300	-	1	Observation	Unidentified Raptor	N/A	Sam Omdul
15-Dec-24	B2Gold Nunavut	MLA Incinerator	500	-	-	Sign	Scat - Unspecified Fox	Animal Scat	George Harman
21-Jun-24	B2Gold Nunavut	Goose Lower camp	500	-	1	Observation	Grizzly bear	Seen from the incinerator	Mike E
24-Jun-24	B2Gold Nunavut	Goose Lower camp	500	-	1	Observation	Grey Wolf	Seen across the lake around 9pm	Mike E
21-Jun-24	B2Gold Nunavut	Goose Lower camp	1000	-	1	Observation	Grizzly bear	Not displaying aggressive behaviours. Across lake.	Mike E
10-May-24	B2Gold Nunavut	Goose	1000	-	1	Observation	Unidentified Raptor	-	Sam Omdul
19-Jul-24	B2Gold Nunavut	Goose	2000	-	200	Observation	Caribou	Stationary herd. 0423944, 7248999	Pilot
6-Jun-24	B2Gold Nunavut	Goose South of EXP camp	2000	-	6	Observation	Caribou	Grazing	Thomas Bolt
21-Jan-24	B2Gold Nunavut	MLA	3000	-	2	Observation	Moose	Nice to see	Bob
18-Jun-24	B2Gold Nunavut	Goose Echo Pit	4000	-	1	Observation	Grey Wolf	Located at the Echo waste dump	Sheldon Mason
2-Dec-24	B2Gold Nunavut	MLA West of camp	4000	-	2	Observation	Moose	Walking	Survey
13-Jul-24	B2Gold Nunavut	MLA Airstrip & Laydown	6000	-	10	Observation	Caribou	ran away from a grizzly bear 6km from camp	Johnny
2-Apr-24	B2Gold Nunavut	WIR Goose Forward Camp	30000	-	20	Observation	Caribou	Portage 30	-
17-Apr-24	B2Gold Nunavut	WIR KM74	74000	-	1	Observation	Unspecified Fox	74 Km WIR	-
24-Jan-24	B2Gold Nunavut	WIR Lake 6	-	-	1	Observation	Wolverine	-	-
29-Jan-24	B2Gold Nunavut	WIR Lake 8	-	-	1	Observation	Grey Wolf	-	-
31-Jan-24	B2Gold Nunavut	WIR Lake 12	-	-	1	Observation	Unspecified Fox	-	-
2-Feb-24	B2Gold Nunavut	Goose Forward camp old site	-	-	1	Observation	Red Fox	Red Fox	-
6-Feb-24	B2Gold Nunavut	WIR Lake 13	-	-	1	Observation	Red Fox	Red Fox	-
8-Feb-24	B2Gold Nunavut	WIR Lake 14	-	-	1	Observation	Grey Wolf	Lake 14, running.	-
8-Feb-24	B2Gold Nunavut	WIR Goose Forward Camp	-	-	1	Observation	Unspecified Fox	At Forward Camp, Lake G	-
8-Feb-24	B2Gold Nunavut	WIR Lake 13	-	-	1	Observation	Unspecified Fox	Lake 13, looks like been fed	-
9-Feb-24	B2Gold Nunavut	Goose Lake-Haul road	-	-	1	Observation	Grey Wolf	Walking along main haul road	-
10-Feb-24	B2Gold Nunavut	Goose Fuel Cube	-	-	1	Observation	Grey Wolf	By fuel cube at Lake 14	-
14-Feb-24	B2Gold Nunavut	Goose Old Forward Camp	-	-	1	Observation	Unspecified Fox	2 foxes begging at Old Forward Camp	-
17-Feb-24	B2Gold Nunavut	Goose Lake Main	-	-	1	Observation	Wolverine	Under kitchen Loading Dock	-
17-Feb-24	B2Gold Nunavut	Goose Lake Main	-	-	1	Observation	Wolverine	Under kitchen Loading Dock	-
28-Feb-24	B2Gold Nunavut	WIR Goose Forward Camp	-	-	2	Observation	Grey Wolf	2 wolves at portage #6	-
14-Mar-24	B2Gold Nunavut	Goose Lake Exploration	-	-	1	Observation	Wolverine	On Goose Lake Walking toward camp. Deterred with bear banger. Ran away)	-
18-Mar-24	B2Gold Nunavut	Goose Lake Diversion Berm Road	-	-	1	Observation	Grey Wolf	Walking along main haul road	-
27-Mar-24	B2Gold Nunavut	WIR KM40	-	-	1	Observation	Caribou	-	-
31-Mar-24	B2Gold Nunavut	WIR KM20	-	-	40	Observation	Caribou	-	-
1-Apr-24	B2Gold Nunavut	WIR P30	-	-	100	Observation	Caribou	-	-
2-Apr-24	B2Gold Nunavut	WIR P9/P10	-	-	50	Observation	Caribou	-	-
2-Apr-24	B2Gold Nunavut	WIR P21	-	-	100	Observation	Caribou	-	-
3-Apr-24	B2Gold Nunavut	WIR P15	-	-	1	Observation	Caribou	On road. They waited until it passed.	-
3-Apr-24	B2Gold Nunavut	WIR P9/P10	-	-	1	Observation	Caribou	-	-

APPENDIX I: INCIDENTAL WILDLIFE OBSERVATIONS, 2024

Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
5-Apr-24	B2Gold Nunavut	WIR P22/P23	-	-	20	Observation	Caribou	-	-
7-Apr-24	B2Gold Nunavut	WIR P10	-	-	30	Observation	Caribou	-	-
7-Apr-24	B2Gold Nunavut	WIR P9	-	-	50	Observation	Caribou	-	-
9-Apr-24	B2Gold Nunavut	Goose Old Camp Incinerator	-	-	1	Observation	Wolverine	Wolverine approached incinerator area	-
10-Apr-24	B2Gold Nunavut	WIR KM74	-	-	100	Observation	Caribou	-	-
11-Apr-24	B2Gold Nunavut	Goose Old Camp Incinerator	-	-	1	Observation	Wolverine	Approaching Incinerator	-
14-Apr-24	B2Gold Nunavut	WIR P27	-	-	1	Observation	Grey Wolf	Chasing caribou	-
14-Apr-24	B2Gold Nunavut	WIR P27	-	-	300	Observation	Caribou	-	-
29-Apr-24	B2Gold Nunavut	Goose Incinerator	-	-	1	Observation	Wolverine	Wolverine behind Drums.	-
18-May-24	B2Gold Nunavut	Goose Lake	-	-	1	Observation	Grizzly Bear	Approaching Exploration Camp	-
6-Jun-24	B2Gold Nunavut	Goose Lake	-	-	1	Observation	Grey Wolf	Approaching WSP Field crew by Rascal	-
21-Jun-24	B2Gold Nunavut	Goose Lake - Exploration side	-	-	1	Observation	Grizzly Bear	North side of Goose lake heading toward incinerator	-
21-Jun-24	B2Gold Nunavut	Goose Incinerator - Exploration	-	-	1	Observation	Grizzly Bear	Grizzly at incinerator area rubbing on thermistor field box	-
21-Jun-24	B2Gold Nunavut	Goose Plant Site	-	-	6	Observation	Common Redpoll	one adult, 5 young	-
23-Jun-24	B2Gold Nunavut	Goose Incinerator and New Landfill	-	-	1	Observation	Grey Wolf	Grey wolf observed near Goose Lake by incinerator then observed to take a wide lap east of incinerator towards echo pit	-
24-Jun-24	B2Gold Nunavut	MLA Truck Laydown	-	-	4	Observation	Common Redpoll	one adult, 3 young. Nest was predated upon.	-
24-Jun-24	B2Gold Nunavut	MLA Truck Laydown	-	-	4	Observation	Mountain Bluebird	one adult, 3 young. Nest was predated upon.	-
1-Jul-24	B2Gold Nunavut	Goose Airstrip	-	-	1	Observation	Caribou	Was seen walking, eating, then laying down to rest. No collar. MS: Likely same caribou as by major shop. Resident seen in area frequently.	-
2-Jul-24	B2Gold Nunavut	Goose Airstrip	-	-	1	Observation	Caribou	Grazing near major laydown, no collar.	-
3-Jul-24	B2Gold Nunavut	Goose Airstrip	-	-	1	Observation	Caribou	Grazing and bedded down. No Collar	-
4-Jul-24	B2Gold Nunavut	Goose Airstrip	-	-	1	Observation	Caribou	Grazing and heading towards airstrip. No collar	-
10-Jul-24	B2Gold Nunavut	Goose Powerhouse	-	-	1	Observation	American Robin	At least one individual. Number of young not confirmed	-
13-Jul-24	B2Gold Nunavut	Goose Exploration/warehouse	-	-	3	Observation	American Robin	One adult, 2 young	-
1-Aug-24	B2Gold Nunavut	Goose BB13	-	-	1	Observation	Caribou	Territorial	-
9-Aug-24	B2Gold Nunavut	Goose UG powerhouse	-	-	4	Observation	Common Redpoll	One adult, 3 young	-
2-Oct-24	B2Gold Nunavut	Goose West of Camp (by annex/mine dry)	-	-	4	Observation	Grizzly Bear	Sow grizzly and three cubs walking along esker ridges near west of camp (~120 m)	-
10-Nov-24	B2Gold Nunavut	Goose Lake - New Emulsion Plant	-	-	1	Observation	Grey Wolf	Wolf travelling east along the new emulsion road and continued past the emulsion plant	-
7-Mar-24	B2Gold Nunavut	WIR MLA Forward Camp	-	-	2	Observation	Moose	Observed two moose while travelling to Goose from MLA Forward Camp. Resting, walking	Andrew, Brett, DJ
6-Jul-24	B2Gold Nunavut	Echo/Goose	-	-	6	Observation	Caribou	On road at Echo/ Goose main intersection	Barry
16-Aug-24	B2Gold Nunavut	Goose Mag Road	-	-	2	Observation	Caribou	2 Bulls off new mag road	Barry
20-Aug-25	B2Gold Nunavut	Goose Mag Road	-	-	3	Observation	Caribou	New mag road	Barry
24-Jul-24	B2Gold Nunavut	Goose - Echo haul road	-	-	6	Observation	Unspecified Fox	playing, walking around road/ ditch	Barry W.
17-Dec-24	B2Gold Nunavut	Goose Dam, Civil/Earthworks	-	-	1	Observation	Unspecified Fox	Came extremely close to the excavator while I was working, I ground the bucket until animal left area safely. Does not seem to care about getting close to people and machines. The fox looks very healthy.	Benjamin Barkhouse
5-Jul-24	B2Gold Nunavut	MLA Lower Laydown	-	-	1	Observation	Common Raven	2 chicks/3 eggs. Raven observed chasing, eating baby birds. MS: The hatched birds from the 2 nests that were on trailers were predated upon. See the email "20240708_MLA Bird Nest Incidental RE_ Sad News.msg" in the raw folder for info. This is also reflected in the nest monitoring section	Bob Appatot
8-Mar-24	B2Gold Nunavut	MLA Laydown	-	-	2	Observation	Moose	Brent call to Dispatch. 2 Moose walking by satellite Dish	Brent
1-Apr-24	B2Gold Nunavut	WIR P29	-	-	100	Observation	Caribou	Grazing	Brett Graved
30-Aug-24	B2Gold Nunavut	Goose	-	-	7	Observation	Grey Wolf	SW of Goose near Beechey Lake. Spotted by heli	Brian M
16-May-24	B2Gold Nunavut	Goose Lower camp	-	-	2	Observation	Peregrine Falcon	Juvenile peregrine falcon flying.	Cassandra Kapral
23-Jun-24	B2Gold Nunavut	Goose Haul Truck Laydown	-	-	-	Sign	Bird Nest	Bird nest on Rock Truck. No eggs. Nest monitoring sheet completed as well. Nest removed	Chris Lund
-	B2Gold Nunavut	Goose Major	-	-	1	Observation	Caribou	Resting	Cody Avadluk

APPENDIX I: INCIDENTAL WILDLIFE OBSERVATIONS, 2024

Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
13-Jul-24	B2Gold Nunavut	Goose Airstrip	-	-	1	Observation	Caribou	Walking across runway	Colin Vandermeear
10-Dec-24	B2Gold Nunavut	Goose Exploration	-	-	1	Observation	Unspecified Fox	front door of kitchen	Dan M.
31-Mar-24	WIR Trip 1	KM100	-	-	1	Observation	Grey Wolf	Came and investigated truck. Continued on and seen howling.	ERM
1-Apr-24	WIR Trip 1	WIR KM126	-	-	1	Observation	Moose	Feeding	ERM
3-Apr-24	WIR Trip 1	KM126	-	-	3	Observation	Grey Wolf	Laying on the ice about 2km from forward camp	ERM
6-Apr-24	WIR Trip 1	KM90	-	-	1	Observation	Grey Wolf	Came and investigated truck. Walking along WIR.	ERM
13-Apr-24	WIR Trip 1	WIR KM31	-	-	1	Observation	Red Fox	Cross Fox. Crossed WIR.	ERM
17-Apr-24	WIR Trip 2	KM70	-	-	9	Observation	Grey Wolf	-	ERM
18-Apr-24	WIR Trip 2	KM78	-	-	5	Observation	Grey Wolf	-	ERM
21-Apr-24	WIR Trip 2	WIR KM 105	-	-	4	Observation	Red Fox	investigating kill with wolverine	ERM
21-Apr-24	WIR Trip 2	WIR KM 105	-	-	1	Observation	Wolverine	investigating kill	ERM
22-Apr-24	WIR Trip 2	WIR	-	-	1	Observation	Golden Eagle	-	ERM
22-Apr-24	WIR Trip 2	WIR	-	-	1	Observation	Wolverine	-	ERM
23-Apr-24	WIR Trip 2	WIR	-	-	1	Observation	Rough-legged Hawk	-	ERM
24-Apr-24	WIR Trip 2	WIR Portage 32	-	-	1	Observation	Moose	-	ERM
24-Apr-24	WIR Trip 2	WIR	-	-	1	Observation	Rough-legged Hawk	-	ERM
25-Apr-24	WIR Trip 2	WIR	-	-	2	Observation	Red Fox	MS: From email. Total given, unsure if they were seen all together, or separate.	ERM
27-Apr-24	WIR Trip 2	Portage 14	-	-	2	Observation	Golden Eagle	Mating eagles	ERM
30-Apr-24	WIR Trip 2	Portage 32	-	-	1	Observation	Gyrfalcon	-	ERM
30-Apr-24	WIR Trip 2	WIR Portage 34	-	-	1	Observation	Moose	-	ERM
1-May-24	WIR Trip 2	KM 109	-	-	4	Observation	Grey Wolf	Bathurst Lake	ERM
1-May-24	WIR Trip 2	WIR Portage 34	-	-	1	Observation	Moose	-	ERM
15-May-24	Spring Raptors/Waterbirds	WB5	-	-	1	Observation	Unidentified Ptarmigan	flushed. Non breeding plumage	ERM
15-May-24	Spring Raptors/Waterbirds	WB41	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB43	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB55	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB59	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB65	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB72	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB78	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB79	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB82	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB87	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB93	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB94	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB2	-	-	1	Observation	Willow Ptarmigan	flushed. Breeding plumage starting to come in	ERM
15-May-24	Spring Raptors/Waterbirds	WB27	-	-	1	Observation	Willow Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB98	-	-	1	Observation	Willow Ptarmigan	resting, starting breeding plumage	ERM
15-May-24	Spring Raptors/Waterbirds	WB7	-	-	2	Observation	Unidentified Ptarmigan	non breeding plumage	ERM
15-May-24	Spring Raptors/Waterbirds	WB40	-	-	2	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB68	-	-	2	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB90	-	-	2	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB91	-	-	2	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB92	-	-	2	Observation	Unidentified Ptarmigan	flushed	ERM
15-May-24	Spring Raptors/Waterbirds	WB36	-	-	10	Observation	Snow Bunting	group flying	ERM
15-May-24	Spring Raptors/Waterbirds	WB44	-	-	15	Observation	Snow Bunting	group flying, foraging	ERM
15-May-24	Spring Raptors/Waterbirds	WB4	-	-	1	Observation	Caribou		ERM
15-May-24	Spring Raptors/Waterbirds	WB26	-	-	7	Observation	Caribou	grazing	ERM
15-May-24	Spring Raptors/Waterbirds	WB56	-	-	4	Observation	Caribou		ERM
15-May-24	Spring Raptors/Waterbirds	WB62	-	-	4	Observation	Caribou		ERM
15-May-24	Spring Raptors/Waterbirds	WB75	-	-	20	Observation	Caribou	bedded	ERM
15-May-24	Spring Raptors/Waterbirds	WB3	-	-	1	Observation	Common Raven	flying	ERM

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15-May-24	Spring Raptors/Waterbirds	WB86	-	-	1	Observation	Common Raven	flying	ERM
15-May-24	Spring Raptors/Waterbirds	WB8	-	-	1	Observation	Golden Eagle	flying	ERM
15-May-24	Spring Raptors/Waterbirds	WB31	-	-	1	Observation	Golden Eagle	flying	ERM
15-May-24	Spring Raptors/Waterbirds	WB34	-	-	1	Observation	Golden Eagle	flying	ERM
15-May-24	Spring Raptors/Waterbirds	WB39	-	-	1	Observation	Golden Eagle	flying	ERM
15-May-24	Spring Raptors/Waterbirds	WB16	-	-	3	Observation	Grizzly Bear	sow with 2 cubs	ERM
15-May-24	Spring Raptors/Waterbirds	WB42	-	-	1	Observation	Moose		ERM
15-May-24	Spring Raptors/Waterbirds	WB9	-	-	1	Observation	Muskox		ERM
15-May-24	Spring Raptors/Waterbirds	Ground surveys in MLA Control	-	-	22	Observation	Muskox	Near one of the ground survey locations	ERM
15-May-24	Spring Raptors/Waterbirds	Raptor surveys along WIR	-	-	30	Observation	Muskox	In transit between sites	ERM
15-May-24	Spring Raptors/Waterbirds	WB81	-	-	1	Observation	Peregrine Falcon	flying	ERM
15-May-24	Spring Raptors/Waterbirds	WB22	-	-	1	Observation	Rough-legged Hawk	flying	ERM
15-May-24	Spring Raptors/Waterbirds	WB23	-	-	1	Observation	Rough-legged Hawk	flying	ERM
15-May-24	Spring Raptors/Waterbirds	WB30	-	-	1	Observation	Rough-legged Hawk	flying	ERM
15-May-24	Spring Raptors/Waterbirds	WB96	-	-	1	Observation	Short Eared Owl	flushed	ERM
16-May-24	Spring Raptors/Waterbirds	WB103	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
16-May-24	Spring Raptors/Waterbirds	WB109	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
16-May-24	Spring Raptors/Waterbirds	WB110	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
16-May-24	Spring Raptors/Waterbirds	WB113	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
16-May-24	Spring Raptors/Waterbirds	WB114	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
16-May-24	Spring Raptors/Waterbirds	WB117	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
16-May-24	Spring Raptors/Waterbirds	WB131	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
16-May-24	Spring Raptors/Waterbirds	WB118	-	-	2	Observation	Unidentified Ptarmigan	foraging, resting	ERM
16-May-24	Spring Raptors/Waterbirds	WB119	-	-	3	Observation	Unidentified Ptarmigan	foraging, resting	ERM
16-May-24	Spring Raptors/Waterbirds	Trip Report	-	-	2	Observation	Grey Wolf	In transit between sites	ERM
16-May-24	Spring Raptors/Waterbirds	WB126	-	-	1	Observation	Rough-legged Hawk		ERM
16-May-24	Spring Raptors/Waterbirds	RSA - Trip Report	-	-	1	Observation	Wolverine	In transit between sites	ERM
17-May-24	Spring Raptors/Waterbirds	Trip Report	-	-	2	Observation	Grizzly Bear	In transit between sites	ERM
17-May-24	Spring Raptors/Waterbirds	Trip Report	-	-	1	Observation	Moose	In transit between sites	ERM
20-May-24	Spring Raptors/Waterbirds	WB2_3	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
20-May-24	Spring Raptors/Waterbirds	WB3_9	-	-	1	Observation	Unidentified Shorebird	Small brown/white/grey shorebird. Likely least or semi. Flushed	ERM
20-May-24	Spring Raptors/Waterbirds	WB2_13	-	-	2	Observation	Snow Bunting	flying around	ERM
20-May-24	Spring Raptors/Waterbirds	WB2_4	-	-	11	Observation	Caribou	bedded	ERM
20-May-24	Spring Raptors/Waterbirds	WB2_7	-	-	3	Observation	Grizzly Bear	sow and 2 older cubs	ERM
20-May-24	Spring Raptors/Waterbirds	Mi14_20240521_13:22:00	-	-	1	Observation	American Tree Sparrow		ERM
20-May-24	Spring Raptors/Waterbirds	Mi06_20240520_10:36:00	-	-	1	Observation	Lapland Longspur		ERM
20-May-24	Spring Raptors/Waterbirds	Mi13_20240521_13:00:00	-	-	1	Observation	Lapland Longspur		ERM
20-May-24	Spring Raptors/Waterbirds	Mi06_20240520_10:36:00	-	-	1	Observation	Sandhill Crane		ERM
20-May-24	Spring Raptors/Waterbirds	Mi04_20240520_14:52:00	-	-	1	Observation	Sandhill Crane		ERM
20-May-24	Spring Raptors/Waterbirds	Mi06_20240520_10:36:00	-	-	2	Observation	Common Redpoll		ERM
20-May-24	Spring Raptors/Waterbirds	Mi14_20240521_13:22:00	-	-	2	Observation	Hoary Redpoll		ERM
20-May-24	Spring Raptors/Waterbirds	Mi06_20240520_10:36:00	-	-	2	Observation	Horned Lark		ERM
20-May-24	Spring Raptors/Waterbirds	Mi06_20240520_10:36:00	-	-	3	Observation	Herring Gull		ERM
20-May-24	Spring Raptors/Waterbirds	Mi12_20240520_11:53:00	-	-	5	Observation	Sandhill Crane		ERM
20-May-24	Spring Raptors/Waterbirds	WB2_14	-	-	1	Observation	Moose	bedded on side of pond	ERM
20-May-24	Spring Raptors/Waterbirds	Mi12_20240520_11:53:00	-	-	1	Observation	Moose		ERM
20-May-24	Spring Raptors/Waterbirds	Mi06_20240520_10:36:00	-	-	1	Observation	Norther harrier		ERM
21-May-24	Spring Raptors/Waterbirds	WB4_21	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
21-May-24	Spring Raptors/Waterbirds	WB4_16	-	-	2	Observation	Unidentified Ptarmigan	flushed	ERM
21-May-24	Spring Raptors/Waterbirds	WB4_22	-	-	3	Observation	Caribou		ERM
21-May-24	Spring Raptors/Waterbirds	Mc13_20240521_11:18:00	-	-	1	Observation	Caribou		ERM
21-May-24	Spring Raptors/Waterbirds	Mc15_20240521_11:58:00	-	-	1	Observation	Common Raven		ERM
21-May-24	Spring Raptors/Waterbirds	Mc16_20240521_00:23:00	-	-	1	Observation	Common Raven		ERM

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21-May-24	Spring Raptors/Waterbirds	Mc13_20240521_11:18:00	-	-	1	Observation	American Pipit		ERM
21-May-24	Spring Raptors/Waterbirds	Mc16_20240521_00:23:00	-	-	1	Observation	Baird's Sandpiper		ERM
21-May-24	Spring Raptors/Waterbirds	Mc11_20240521_10:20:00	-	-	1	Observation	Common Redpoll		ERM
21-May-24	Spring Raptors/Waterbirds	Mc12_20240521_10:50:00	-	-	1	Observation	Common Redpoll		ERM
21-May-24	Spring Raptors/Waterbirds	Mc15_20240521_11:58:00	-	-	1	Observation	Common Redpoll		ERM
21-May-24	Spring Raptors/Waterbirds	Mc15_20240521_11:58:00	-	-	1	Observation	Greater White-fronted Goose		ERM
21-May-24	Spring Raptors/Waterbirds	Mc14_20240521_11:39:00	-	-	1	Observation	Lapland Longspur		ERM
21-May-24	Spring Raptors/Waterbirds	Mc16_20240521_00:23:00	-	-	1	Observation	Sandhill Crane		ERM
21-May-24	Spring Raptors/Waterbirds	Mc16_20240521_00:23:00	-	-	1	Observation	Semipalmated Plover		ERM
21-May-24	Spring Raptors/Waterbirds	Mc16_20240521_00:23:00	-	-	2	Observation	Lapland Longspur		ERM
21-May-24	Spring Raptors/Waterbirds	Mc11_20240521_10:20:00	-	-	2	Observation	White-crowned Sparrow		ERM
21-May-24	Spring Raptors/Waterbirds	Mc11_20240521_10:20:00	-	-	3	Observation	American Golden-Plover		ERM
21-May-24	Spring Raptors/Waterbirds	Mc13_20240521_11:18:00	-	-	4	Observation	Common Redpoll		ERM
22-May-24	Spring Raptors/Waterbirds	WB5_10	-	-	1	Observation	Unidentified Ptarmigan	foraging	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_22	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_32	-	-	1	Observation	Unidentified Ptarmigan	resting	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_59	-	-	1	Observation	Unidentified Ptarmigan	resting	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_69	-	-	1	Observation	Unidentified Ptarmigan	flushed	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_14	-	-	1	Observation	Willow Ptarmigan	resting, foraging	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_23	-	-	3	Observation	Caribou	walking	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_18	-	-	1	Observation	Willow Ptarmigan	running	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_63	-	-	1	Observation	Willow Ptarmigan	resting	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_70	-	-	1	Observation	Willow Ptarmigan	resting, foraging	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_41	-	-	2	Observation	American Golden-Plover	resting	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_11	-	-	2	Observation	Unidentified Ptarmigan	resting, flushed	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_15	-	-	2	Observation	Unidentified Ptarmigan	flushed	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_17	-	-	2	Observation	Unidentified Ptarmigan	flying	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_24	-	-	2	Observation	Unidentified Ptarmigan	foraging	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_25	-	-	2	Observation	Unidentified Ptarmigan	foraging	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_29	-	-	2	Observation	Unidentified Ptarmigan	foraging	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_31	-	-	2	Observation	Unidentified Ptarmigan	foraging, resting	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_33	-	-	2	Observation	Unidentified Ptarmigan	resting	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_47	-	-	2	Observation	Unidentified Ptarmigan	flushed	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_57	-	-	2	Observation	Unidentified Ptarmigan	foraging, resting	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_65	-	-	2	Observation	Unidentified Ptarmigan	flushed	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_68	-	-	2	Observation	Unidentified Ptarmigan	resting, flushed	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_1	-	-	2	Observation	Willow Ptarmigan	resting, foraging. Flushed	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_41	-	-	2	Observation	Willow Ptarmigan		ERM
22-May-24	Spring Raptors/Waterbirds	WB5_46	-	-	2	Observation	Willow Ptarmigan	foraging, flushed	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_55	-	-	2	Observation	Willow Ptarmigan	resting	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_61	-	-	2	Observation	Willow Ptarmigan	flying	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_64	-	-	2	Observation	Willow Ptarmigan	flushed	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_16	-	-	3	Observation	Unidentified Ptarmigan	resting	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_28	-	-	3	Observation	Unidentified Ptarmigan	flushed	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_72	-	-	4	Observation	Snow Goose	Incidental. Right after transect end outside of plot. Flying in group	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_29	-	-	8	Observation	Unidentified Shorebird	Unknown, too small and far. Resting	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_72	-	-	10	Observation	Tundra Swan	Incidental. Right after transect end outside of plot. Flying in group	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_35	-	-	20	Observation	Snow Goose	Incidental. Between transects outside of plot. Flying	ERM
22-May-24	Spring Raptors/Waterbirds	WB5_4	-	-	1	Observation	Muskox	Chilling	ERM
22-May-24	Spring Raptors/Waterbirds	Gc12_20240522_11:45:00	-	-	1	Observation	American Golden-Plover		ERM
22-May-24	Spring Raptors/Waterbirds	Gi11_20240522_00:27:00	-	-	1	Observation	American Pipit		ERM
22-May-24	Spring Raptors/Waterbirds	Gc14_20240522_00:10:00	-	-	1	Observation	Lapland Longspur		ERM
22-May-24	Spring Raptors/Waterbirds	Gi12_20240522_13:05:00	-	-	1	Observation	Lapland Longspur		ERM

APPENDIX I: INCIDENTAL WILDLIFE OBSERVATIONS, 2024

Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
22-May-24	Spring Raptors/Waterbirds	Gi14_20240522_13:45:00	-	-	1	Observation	Lapland Longspur		ERM
22-May-24	Spring Raptors/Waterbirds	Gc09_20240522_11:00:00	-	-	1	Observation	Least Sandpiper		ERM
22-May-24	Spring Raptors/Waterbirds	Gi16_20240522_14:50:00	-	-	1	Observation	Least Sandpiper		ERM
22-May-24	Spring Raptors/Waterbirds	Gi13_20240522_13:25:00	-	-	1	Observation	Pectoral Sandpiper		ERM
22-May-24	Spring Raptors/Waterbirds	Gc08_20240522_11:24:00	-	-	1	Observation	Rock Ptarmigan		ERM
22-May-24	Spring Raptors/Waterbirds	Gc11_20240522_10:25:00	-	-	1	Observation	Sandhill Crane		ERM
22-May-24	Spring Raptors/Waterbirds	Gc09_20240522_11:00:00	-	-	1	Observation	Sandhill Crane		ERM
22-May-24	Spring Raptors/Waterbirds	Gc09_20240522_11:00:00	-	-	1	Observation	Savannah Sparrow		ERM
22-May-24	Spring Raptors/Waterbirds	Gi11_20240522_00:27:00	-	-	1	Observation	Savannah Sparrow		ERM
22-May-24	Spring Raptors/Waterbirds	Gi16_20240522_14:45:00	-	-	1	Observation	Savannah Sparrow		ERM
22-May-24	Spring Raptors/Waterbirds	Gc13_20240522_11:59:00	-	-	1	Observation	Unidentified Ptarmigan		ERM
22-May-24	Spring Raptors/Waterbirds	Gi14_20240522_13:45:00	-	-	1	Observation	Unidentified Ptarmigan		ERM
22-May-24	Spring Raptors/Waterbirds	Gc09_20240522_11:00:00	-	-	1	Observation	Willow Ptarmigan		ERM
22-May-24	Spring Raptors/Waterbirds	Gc12_20240522_11:45:00	-	-	1	Observation	Willow Ptarmigan		ERM
22-May-24	Spring Raptors/Waterbirds	Gc09_20240522_11:00:00	-	-	2	Observation	American Pipit		ERM
22-May-24	Spring Raptors/Waterbirds	Gc13_20240522_11:59:00	-	-	2	Observation	Greater White-fronted Goose		ERM
22-May-24	Spring Raptors/Waterbirds	Gc11_20240522_10:25:00	-	-	2	Observation	Pectoral Sandpiper		ERM
22-May-24	Spring Raptors/Waterbirds	Gc08_20240522_11:24:00	-	-	2	Observation	Savannah Sparrow		ERM
22-May-24	Spring Raptors/Waterbirds	Gc11_20240522_10:25:00	-	-	2	Observation	Semipalmated Sandpiper		ERM
22-May-24	Spring Raptors/Waterbirds	Gc09_20240522_11:00:00	-	-	2	Observation	Snow Bunting		ERM
22-May-24	Spring Raptors/Waterbirds	Gi14_20240522_13:45:00	-	-	2	Observation	Stilt Sandpiper		ERM
22-May-24	Spring Raptors/Waterbirds	Gi16_20240522_14:50:00	-	-	2	Observation	Stilt Sandpiper		ERM
22-May-24	Spring Raptors/Waterbirds	Gc08_20240522_11:24:00	-	-	2	Observation	Willow Ptarmigan		ERM
22-May-24	Spring Raptors/Waterbirds	Gi08_20240522_14:05:00	-	-	2	Observation	Willow Ptarmigan		ERM
22-May-24	Spring Raptors/Waterbirds	Gc12_20240522_11:45:00	-	-	3	Observation	Lapland Longspur		ERM
22-May-24	Spring Raptors/Waterbirds	Gi11_20240522_00:27:00	-	-	3	Observation	Willow Ptarmigan		ERM
22-May-24	Spring Raptors/Waterbirds	Gi16_20240522_14:45:00	-	-	3	Observation	Willow Ptarmigan		ERM
22-May-24	Spring Raptors/Waterbirds	Gi16_20240522_14:50:00	-	-	4	Observation	Lapland Longspur		ERM
22-May-24	Spring Raptors/Waterbirds	Gi12_20240522_13:05:00	-	-	4	Observation	Willow Ptarmigan		ERM
22-May-24	Spring Raptors/Waterbirds	Gc09_20240522_11:00:00	-	-	5	Observation	Lapland Longspur		ERM
22-May-24	Spring Raptors/Waterbirds	Gc13_20240522_11:59:00	-	-	5	Observation	Snow Goose		ERM
22-May-24	Spring Raptors/Waterbirds	Gc11_20240522_10:25:00	-	-	5	Observation	Stilt Sandpiper		ERM
22-May-24	Spring Raptors/Waterbirds	Gc11_20240522_10:25:00	-	-	6	Observation	Willow Ptarmigan		ERM
22-May-24	Spring Raptors/Waterbirds	Gc08_20240522_11:24:00	-	-	7	Observation	Lapland Longspur		ERM
22-May-24	Spring Raptors/Waterbirds	Gi11_20240522_00:27:00	-	-	9	Observation	Lapland Longspur		ERM
22-May-24	Spring Raptors/Waterbirds	Gc11_20240522_10:25:00	-	-	10	Observation	Lapland Longspur		ERM
22-May-24	Spring Raptors/Waterbirds	WB5_37	-	-	1	Observation	Short Eared Owl	flying	ERM
22-May-24	Spring Raptors/Waterbirds	Gc13_20240522_11:59:00	-	-	2	Observation	Unidentified Raptor		ERM
1-Jun-24	PRISM	BR12	-	-	1	Observation	Common Redpoll		ERM
1-Jun-24	PRISM	BR12	-	-	1	Observation	Lapland Longspur		ERM
14-Jun-24	PRISM	PR007	-	-	1	Observation	American Golden-Plover		ERM
14-Jun-24	PRISM	PR007	-	-	1	Observation	Long-tailed Jaeger		ERM
14-Jun-24	PRISM	PR007	-	-	4	Observation	Canada Goose		ERM
14-Jun-24	VRPC	PR007	-	-	1	Observation	Lapland Longspur		ERM
16-Jun-24	PRISM	PR-004	-	-	1	Observation	Common Raven	Cora	ERM
16-Jun-24	PRISM	PR-004	-	-	1	Observation	Northern Pintail		ERM
16-Jun-24	PRISM	PR-003	-	-	4	Observation	Canada Goose		ERM
17-Jun-24	PRISM	RA29	-	-	1	Observation	Common Redpoll		ERM
17-Jun-24	PRISM	RA-38	-	-	1	Observation	Common Redpoll		ERM
17-Jun-24	PRISM	RA-38	-	-	1	Observation	Herring Gull		ERM
17-Jun-24	PRISM	RA-38	-	-	1	Observation	Long-tailed Jaeger		ERM
17-Jun-24	PRISM	RA-38	-	-	1	Observation	Unidentified Sandpiper	Unknown sandpiper	ERM
17-Jun-24	PRISM	RA200	-	-	2	Observation	Herring Gull		ERM

APPENDIX I: INCIDENTAL WILDLIFE OBSERVATIONS. 2024

Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
17-Jun-24	PRISM	RA29	-	-	2	Observation	Long-tailed Jaeger		ERM
17-Jun-24	PRISM	RA200	-	-	2	Observation	Semipalmated Sandpiper		ERM
17-Jun-24	PRISM	RA-38	-	-	30	Observation	Northern Pintail		ERM
17-Jun-24	PRISM	454	-	-	1	Observation	Caribou	-	ERM
18-Jun-24	PRISM	PR-009	-	-	1	Observation	Lapland Longspur		ERM
18-Jun-24	PRISM	PR-009	-	-	1	Observation	Long-tailed Duck		ERM
18-Jun-24	PRISM	PR-009	-	-	1	Observation	Unidentified Scaup	Unknown scaup	ERM
18-Jun-24	PRISM	PR-009	-	-	2	Observation	Common Redpoll		ERM
18-Jun-24	PRISM	PR-001	-	-	8	Observation	Canada Goose		ERM
18-Jun-24	PRISM	PR-009	-	-	24	Observation	Canada Goose		ERM
19-Jun-24	PRISM	RA11	-	-	1	Observation	American Tree Sparrow		ERM
19-Jun-24	PRISM	RA11	-	-	1	Observation	Savannah Sparrow		ERM
19-Jun-24	PRISM	RA11	-	-	30	Observation	Canada Goose		ERM
19-Jun-24	VRPC	RA30	-	-	1	Observation	Canada Goose		ERM
19-Jun-24	VRPC	RA11	-	-	48	Observation	Canada Goose		ERM
21-Jun-24	PRISM	LSA-306	-	-	3	Observation	Canada Goose		ERM
22-Jun-24	PRISM	RA301	-	-	1	Observation	Common Raven	Common raven not unknown	ERM
22-Jun-24	PRISM	RA2	-	-	1	Observation	Pomarine Jaeger		ERM
22-Jun-24	PRISM	RA301	-	-	1	Observation	Sandhill Crane		ERM
22-Jun-24	PRISM	RA301	-	-	2	Observation	Common Redpoll		ERM
22-Jun-24	PRISM	RA2	-	-	2	Observation	Long-tailed Jaeger		ERM
22-Jun-24	PRISM	455	-	-	1	Observation	Caribou	-	ERM
23-Jun-24	PRISM	LSA-200	-	-	1	Observation	Savannah Sparrow		ERM
24-Jun-24	PRISM	PPA	-	-	5	Observation	Common Redpoll		ERM
25-Jun-24	PRISM	PR-008	-	-	1	Observation	Common Redpoll		ERM
25-Jun-24	PRISM	PR-005	-	-	11	Observation	Common Redpoll		ERM
25-Jun-24	VRPC	PR-005	-	-	1	Observation	Common Redpoll	FLY OVER	ERM
25-Jun-24	PRISM	710	-	-	3	Observation	Muskox	-	ERM
26-Jun-24	PRISM	589	-	-	3	Observation	Grizzly Bear	-	ERM
26-Jun-24	PRISM	287	-	-	2	Observation	Caribou	-	ERM
26-Jun-24	PRISM	185	-	-	1	Observation	Caribou	-	ERM
26-Jun-24	PRISM	186	-	-	1	Observation	Grizzly Bear	-	ERM
26-Jun-24	PRISM	26	-	-	10	Observation	Caribou	-	ERM
26-Jun-24	PRISM	707	-	-	1	Observation	Moose	-	ERM
26-Jun-24	PRISM	302	-	-	3	Observation	Caribou	-	ERM
26-Jun-24	PRISM	708	-	-	2	Observation	Moose	-	ERM
26-Jun-24	PRISM	708	-	-	3	Observation	Grizzly Bear	-	ERM
26-Jun-24	PRISM	326	-	-	5	Observation	Caribou	-	ERM
26-Jun-24	PRISM	288	-	-	2	Observation	Caribou	-	ERM
26-Jun-24	PRISM	289	-	-	1	Observation	Moose	-	ERM
27-Jun-24	PRISM	WIR Noise Monitoring 5km north	-	-	1	Observation	Grey Wolf	Wolf predatory encounter	ERM
27-Jun-24	PRISM	REF29	-	-	8	Observation	Caribou	8 Caribou observed in plot	ERM
27-Jun-24	PRISM	REF31	-	-	1	Observation	Common Raven	Common Raven, not unknown	ERM
27-Jun-24	PRISM	REF29	-	-	1	Observation	Semipalmated Sandpiper		ERM
27-Jun-24	PRISM	REF31	-	-	1	Observation	Tundra Swan		ERM
27-Jun-24	PRISM	REF29	-	-	2	Observation	Common Redpoll		ERM
27-Jun-24	PRISM	REF31	-	-	3	Observation	Common Redpoll		ERM
27-Jun-24	PRISM	REF31	-	-	6	Observation	Canada Goose		ERM
27-Jun-24	PRISM	366	-	-	8	Observation	Caribou	-	ERM
28-Jun-24	PRISM	RA26	-	-	1	Observation	Long-tailed Duck		ERM
28-Jun-24	PRISM	RA26	-	-	1	Observation	Parasitic Jaeger		ERM
28-Jun-24	PRISM	RA21	-	-	1	Observation	Pomarine Jaeger		ERM
28-Jun-24	PRISM	390	-	-	1	Observation	Bald Eagle	-	ERM

APPENDIX I: INCIDENTAL WILDLIFE OBSERVATIONS, 2024

Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
30-Jun-24	PRISM	P1-B	-	-	1	Observation	Canada Goose		ERM
30-Jun-24	PRISM	P1-B	-	-	1	Observation	Common Redpoll		ERM
30-Jun-24	PRISM	LSA-307-B	-	-	1	Observation	Common Redpoll		ERM
30-Jun-24	PRISM	P1-B	-	-	-	Sign	Wolf and Wolverine Tracks	Wolf and wolverine tracks in plot	ERM
30-Jun-24	VRPC	LSA-307-B	-	-	1	Observation	Common Redpoll	FLY OVER	ERM
1-Jul-24	PRISM	REF2	-	-	1	Observation	Caribou	Caribou	ERM
1-Jul-24	PRISM	REF2	-	-	1	Observation	Savannah Sparrow		ERM
1-Jul-24	PRISM	REF2	-	-	2	Observation	Common Redpoll		ERM
16-Jul-24	Summer Raptors/Waterbirds	T19	-	-	2	Observation	Bald Eagle	1 adult with 1 immature (not from this year)	ERM
16-Jul-24	Summer Raptors/Waterbirds	T19	-	-	3	Observation	Common Raven		ERM
16-Jul-24	Summer Raptors/Waterbirds	T22	-	-	1	Observation	Gyr Falcon	foraging	ERM
16-Jul-24	Summer Raptors/Waterbirds	T24	-	-	1	Observation	Pomarine Jaeger	foraging/flying	ERM
16-Jul-24	Summer Raptors/Waterbirds	T19	-	-	1	Observation	Red-necked Phalarope		ERM
16-Jul-24	Summer Raptors/Waterbirds	T22	-	-	1	Observation	Unidentified Ptarmigan		ERM
16-Jul-24	Summer Raptors/Waterbirds	T21	-	-	4	Observation	Rock Ptarmigan		ERM
16-Jul-24	Summer Raptors/Waterbirds	T17	-	-	30	Observation	Canada Goose		ERM
16-Jul-24	Summer Raptors/Waterbirds	T17	-	-	3	Observation	Muskox		ERM
16-Jul-24	Summer Raptors/Waterbirds	T24	-	-	1	Observation	Peregrine Falcon	flying	ERM
17-Jul-24	Summer Raptors/Waterbirds	T01	-	-	2	Observation	Bald Eagle	flying and landing on side of lake. 1 adult and 1 immature (not this year's young)	ERM
17-Jul-24	Summer Raptors/Waterbirds	T13	-	-	1	Observation	Caribou		ERM
17-Jul-24	Summer Raptors/Waterbirds	T14	-	-	1	Observation	Caribou		ERM
17-Jul-24	Summer Raptors/Waterbirds	T16	-	-	1	Observation	Caribou		ERM
17-Jul-24	Summer Raptors/Waterbirds	T01	-	-	1	Observation	Caribou		ERM
17-Jul-24	Summer Raptors/Waterbirds	T01	-	-	1	Observation	Caribou	cooling off	ERM
17-Jul-24	Summer Raptors/Waterbirds	T02	-	-	2	Observation	Caribou	feeding	ERM
17-Jul-24	Summer Raptors/Waterbirds	T02	-	-	1	Observation	Caribou	foraging	ERM
17-Jul-24	Summer Raptors/Waterbirds	T05	-	-	1	Observation	Caribou		ERM
17-Jul-24	Summer Raptors/Waterbirds	T05	-	-	1	Observation	Caribou		ERM
17-Jul-24	Summer Raptors/Waterbirds	T06	-	-	1	Observation	Caribou		ERM
17-Jul-24	Summer Raptors/Waterbirds	T08	-	-	1	Observation	Caribou		ERM
17-Jul-24	Summer Raptors/Waterbirds	T03	-	-	2	Observation	Golden Eagle		ERM
17-Jul-24	Summer Raptors/Waterbirds	T08	-	-	1	Observation	Grizzly Bear		ERM
17-Jul-24	Summer Raptors/Waterbirds	T04	-	-	3	Observation	Greater Scaup		ERM
17-Jul-24	Summer Raptors/Waterbirds	T07	-	-	1	Observation	Moose		ERM
17-Jul-24	Summer Raptors/Waterbirds	T09	-	-	1	Observation	Muskox	feeding	ERM
17-Jul-24	Summer Raptors/Waterbirds	T09	-	-	1	Observation	Muskox		ERM
17-Jul-24	Summer Raptors/Waterbirds	T15	-	-	1	Observation	Muskox		ERM
17-Jul-24	Summer Raptors/Waterbirds	T06	-	-	1	Observation	Northern Harrier		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi04_20240718_11:25:00	-	-	2	Observation	Caribou		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi12_20240718_10:50:00	-	-	1	Observation	Golden Eagle		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc11_20240718_15:53:00	-	-	1	Observation	Moose		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc16_20240718_14:25:00	-	-	1	Observation	Common Redpoll		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc14_20240718_15:16:00	-	-	1	Observation	Herring Gull		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc11_20240718_15:53:00	-	-	1	Observation	Herring Gull		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi04_20240718_11:25:00	-	-	1	Observation	Lapland Longspur		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi11_20240718_12:55:00	-	-	1	Observation	Lapland Longspur		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc15_20240718_14:53:00	-	-	1	Observation	Red-necked Phalarope		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi13_20240718_12:25:00	-	-	1	Observation	Red-necked Phalarope		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc15_20240718_14:53:00	-	-	1	Observation	Savannah Sparrow		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi06_20240718_10:12:00	-	-	1	Observation	Savannah Sparrow		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi04_20240718_11:25:00	-	-	1	Observation	Semipalmated Plover		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc16_20240718_14:25:00	-	-	1	Observation	White-crowned Sparrow		ERM

APPENDIX I: INCIDENTAL WILDLIFE OBSERVATIONS, 2024

Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
18-Jul-24	Summer Raptors/Waterbirds	Mc14_20240718_15:16:00	-	-	1	Observation	White-crowned Sparrow		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc12_20240718_16:12:00	-	-	1	Observation	White-crowned Sparrow		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi11_20240718_12:55:00	-	-	1	Observation	White-crowned Sparrow		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc12_20240718_16:12:00	-	-	2	Observation	Common Redpoll		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi04_20240718_11:25:00	-	-	2	Observation	Common Redpoll		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc14_20240718_15:16:00	-	-	2	Observation	Lapland Longspur		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc11_20240718_15:53:00	-	-	2	Observation	Lapland Longspur		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc16_20240718_14:25:00	-	-	2	Observation	Least Sandpiper		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc16_20240718_14:25:00	-	-	2	Observation	Red-necked Phalarope		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi12_20240718_10:50:00	-	-	2	Observation	Savannah Sparrow		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi04_20240718_11:25:00	-	-	2	Observation	Savannah Sparrow		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mc11_20240718_15:53:00	-	-	3	Observation	Common Redpoll		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi11_20240718_12:55:00	-	-	4	Observation	Tundra Swan		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi14_20240718_11:55:00	-	-	6	Observation	Common Redpoll		ERM
18-Jul-24	Summer Raptors/Waterbirds	Mi06_20240718_10:12:00	-	-	28	Observation	Greater Scaup		ERM
20-Jul-24	Summer Raptors/Waterbirds	T26	-	-	150	Observation	Caribou	by lake	ERM
20-Jul-24	Summer Raptors/Waterbirds	T26	-	-	1800	Observation	Caribou	mix of males, females, and calves. Picture: 3855-3857	ERM
20-Jul-24	Summer Raptors/Waterbirds	T29	-	-	200	Observation	Caribou	mix of males, females, and calves	ERM
20-Jul-24	Summer Raptors/Waterbirds	T32	-	-	1	Observation	Caribou		ERM
20-Jul-24	Summer Raptors/Waterbirds	T30	-	-	1	Observation	Grizzly Bear		ERM
20-Jul-24	Summer Raptors/Waterbirds	T26	-	-	1	Observation	Peregrine Falcon		ERM
20-Jul-24	Summer Raptors/Waterbirds	T32	-	-	1	Observation	Short Eared Owl	flying near T32	ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc11_20240720_13:51:00	-	-	1	Observation	Short Eared Owl		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc13_20240720_14:58:00	-	-	1	Observation	Sik Sik		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc14_20240720_15:24:00	-	-	1	Observation	American Golden-Plover		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc09_20240720_13:29:00	-	-	1	Observation	Common Redpoll		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc13_20240720_14:58:00	-	-	1	Observation	Herring Gull		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc11_20240720_13:51:00	-	-	1	Observation	Lapland Longspur		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc09_20240720_13:29:00	-	-	1	Observation	Least Sandpiper		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc08_20240720_14:15:00	-	-	1	Observation	Savannah Sparrow		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc12_20240720_14:38:00	-	-	1	Observation	Savannah Sparrow		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc09_20240720_13:29:00	-	-	2	Observation	American Golden-Plover		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc08_20240720_14:15:00	-	-	2	Observation	American Golden-Plover		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc12_20240720_14:38:00	-	-	2	Observation	American Golden-Plover		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc08_20240720_14:15:00	-	-	2	Observation	American Tree Sparrow		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc08_20240720_14:15:00	-	-	2	Observation	Lapland Longspur		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc14_20240720_15:24:00	-	-	2	Observation	Lapland Longspur		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc09_20240720_13:29:00	-	-	2	Observation	Savannah Sparrow		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc11_20240720_13:51:00	-	-	2	Observation	Savannah Sparrow		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc12_20240720_14:38:00	-	-	2	Observation	White-crowned Sparrow		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc14_20240720_15:24:00	-	-	2	Observation	White-crowned Sparrow		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc14_20240720_15:24:00	-	-	3	Observation	Common Redpoll		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc09_20240720_13:29:00	-	-	3	Observation	Lapland Longspur		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc13_20240720_14:58:00	-	-	5	Observation	Parasitic Jaeger		ERM
20-Jul-24	Summer Raptors/Waterbirds	Gc08_20240720_14:15:00	-	-	10	Observation	Long-tailed Duck		ERM
21-Jul-24	Aerial Group size	142	-	-	14	Observation	Muskox		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi11_20240720_16:14:00	-	-	1	Observation	Bald Eagle		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi11_20240720_16:14:00	-	-	1000	Observation	Caribou		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi11_20240720_16:14:00	-	-	1	Observation	Caribou		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi13_20240722_09:24:00	-	-	1	Observation	Gryfalcon		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi11_20240720_16:14:00	-	-	2	Observation	Sik Sik		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi12_20240720_16:38:00	-	-	1	Observation	American Golden-Plover		ERM
21-Jul-24	Summer Raptors/Waterbirds	Ec02_20240721_16:03:00	-	-	1	Observation	American Pipit		ERM

APPENDIX I: INCIDENTAL WILDLIFE OBSERVATIONS, 2024

Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
21-Jul-24	Summer Raptors/Waterbirds	Ec03_20240721_16:28:00	-	-	1	Observation	Common Redpoll		ERM
21-Jul-24	Summer Raptors/Waterbirds	Ec04_20240722_09:10:00	-	-	1	Observation	Common Redpoll		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi12_20240720_16:38:00	-	-	1	Observation	Herring Gull		ERM
21-Jul-24	Summer Raptors/Waterbirds	Ec01_20240721_15:45:00	-	-	1	Observation	Horned Lark		ERM
21-Jul-24	Summer Raptors/Waterbirds	Ec01_20240721_15:45:00	-	-	1	Observation	Lapland Longspur		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi14_20240721_15:23:00	-	-	1	Observation	Lapland Longspur		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi16_20240722_15:31:00	-	-	1	Observation	Lapland Longspur		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi12_20240720_16:38:00	-	-	1	Observation	Least Sandpiper		ERM
21-Jul-24	Summer Raptors/Waterbirds	Ec02_20240721_16:03:00	-	-	1	Observation	Long-tailed Jaeger		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi11_20240720_16:14:00	-	-	1	Observation	Northern Pintail		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi12_20240720_16:38:00	-	-	1	Observation	Red-necked Phalarope		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi11_20240720_16:14:00	-	-	1	Observation	Savannah Sparrow		ERM
21-Jul-24	Summer Raptors/Waterbirds	Ec03_20240721_16:28:00	-	-	1	Observation	Stilt Sandpiper		ERM
21-Jul-24	Summer Raptors/Waterbirds	Ec04_20240722_09:10:00	-	-	1	Observation	White-crowned Sparrow		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi11_20240720_16:14:00	-	-	1	Observation	White-crowned Sparrow		ERM
21-Jul-24	Summer Raptors/Waterbirds	Ec03_20240721_16:28:00	-	-	2	Observation	American Golden-Plover		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi12_20240720_16:38:00	-	-	2	Observation	American Golden-Plover		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi13_20240722_09:24:00	-	-	2	Observation	Lapland Longspur		ERM
21-Jul-24	Summer Raptors/Waterbirds	Ec03_20240721_16:28:00	-	-	2	Observation	Least Sandpiper		ERM
21-Jul-24	Summer Raptors/Waterbirds	Ec02_20240721_16:03:00	-	-	2	Observation	Red-throated Loon		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi08_20240720_15:45:00	-	-	2	Observation	Red-throated Loon		ERM
21-Jul-24	Summer Raptors/Waterbirds	Ec04_20240722_09:10:00	-	-	2	Observation	Savannah Sparrow		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi16_20240722_15:31:00	-	-	2	Observation	Savannah Sparrow		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi08_20240720_15:45:00	-	-	2	Observation	White-crowned Sparrow		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi12_20240720_16:38:00	-	-	2	Observation	White-crowned Sparrow		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi13_20240722_09:24:00	-	-	3	Observation	Common Redpoll		ERM
21-Jul-24	Summer Raptors/Waterbirds	Ec03_20240721_16:28:00	-	-	3	Observation	Red-necked Phalarope		ERM
21-Jul-24	Summer Raptors/Waterbirds	Gi14_20240721_15:23:00	-	-	18	Observation	Canada Goose		ERM
22-Jul-24	Aerial Group size	143	-	-	1	Observation	Grey Wolf		ERM
22-Jul-24	Aerial Group size	145	-	-	1	Observation	Grey Wolf		ERM
22-Jul-24	Aerial Group size	146	-	-	1	Observation	Muskox		ERM
22-Jul-24	Aerial Group size	157	-	-	1	Observation	Muskox		ERM
26-Jul-24	Aerial Group size	Trip Report	-	-	1	Observation	Bald eagle		ERM
26-Jul-24	Aerial Group size	Trip Report	-	-	1	Observation	Golden eagle		ERM
26-Jul-24	Aerial Group size	Trip Report	-	-	1	Observation	Grizzly bear		ERM
26-Jul-24	Aerial Group size	1114	-	-	1	Observation	Muskox		ERM
26-Jul-24	Aerial Group size	1108	-	-	19	Observation	Muskox		ERM
27-Jul-24	Aerial Group size	Trip Report	-	-	1	Observation	Bald eagle		ERM
27-Jul-24	Aerial Group size	Trip Report	-	-	1	Observation	Golden eagle		ERM
27-Jul-24	Aerial Group size	Trip Report	-	-	2	Observation	Grey Wolf		ERM
27-Jul-24	Aerial Group size	Trip Report	-	-	4	Observation	Grizzly bear	one sow, three cubs	ERM
27-Jul-24	Aerial Group size	1135	-	-	18	Observation	Muskox	Crossing river	ERM
27-Jul-24	Aerial Group size	Trip Report	-	-	2	Observation	Red fox		ERM
28-Jul-24	Aerial Group size	Trip Report	-	-	1	Observation	Bald eagle		ERM
28-Jul-24	Aerial Group size	Trip Report	-	-	1	Observation	Golden eagle		ERM
28-Jul-24	Aerial Group size	Trip Report	-	-	1	Observation	Muskox		ERM
31-Jul-24	Aerial Group size	Trip Report	-	-	1	Observation	Golden eagle		ERM
31-Jul-24	Aerial Group size	Trip Report	-	-	2	Observation	Grizzly bear	one sow with a yearling	ERM
31-Jul-24	Aerial Group size	Trip Report	-	-	1	Observation	Moose		ERM
31-Jul-24	Aerial Group size	Trip Report	-	-	1	Observation	Muskox		ERM
31-Jul-24	Aerial Group size	1800	-	-	12	Observation	Muskox		ERM
5-Sep-24	Fall Waterbirds	T25	-	-	5	Observation	Caribou		ERM
5-Sep-24	Fall Waterbirds	T25	-	-	20	Observation	Caribou		ERM

APPENDIX I: INCIDENTAL WILDLIFE OBSERVATIONS, 2024

Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
5-Sep-24	Fall Waterbirds	T27	-	-	6	Observation	Caribou		ERM
5-Sep-24	Fall Waterbirds	T28	-	-	1	Observation	Caribou		ERM
5-Sep-24	Fall Waterbirds	T26	-	-	9	Observation	Grey Wolf	group, bedded	ERM
5-Sep-24	Fall Waterbirds	T27	-	-	4	Observation	American Golden-Plover	flying	ERM
5-Sep-24	Fall Waterbirds	T29	-	-	1	Observation	Canada Goose		ERM
5-Sep-24	Fall Waterbirds	T29	-	-	2	Observation	Greater White-fronted Goose		ERM
5-Sep-24	Fall Waterbirds	T25	-	-	1	Observation	Unidentified Ptarmigan		ERM
5-Sep-24	Fall Waterbirds	T32	-	-	1	Observation	Unidentified Ptarmigan		ERM
5-Sep-24	Fall Waterbirds	T30	-	-	1	Observation	Northern Harrier	flying	ERM
6-Sep-24	Fall Waterbirds	Mc11_20240906_09:34:00	-	-	1	Observation	Bald Eagle		ERM
6-Sep-24	Fall Waterbirds	MC14_20240906_10:28:00	-	-	4	Observation	Caribou		ERM
6-Sep-24	Fall Waterbirds	MC16_20240906_11:15:00	-	-	2	Observation	Caribou		ERM
6-Sep-24	Fall Waterbirds	MI04_20240906_13:25:00	-	-	8	Observation	Caribou		ERM
6-Sep-24	Fall Waterbirds	MI14_20240906_13:50:00	-	-	2	Observation	Caribou		ERM
6-Sep-24	Fall Waterbirds	MI06_20240906_14:33:00	-	-	3	Observation	Caribou		ERM
6-Sep-24	Fall Waterbirds	MI14_20240906_13:50:00	-	-	1	Observation	Golden Eagle		ERM
6-Sep-24	Fall Waterbirds	MI13_20240906_11:40:00	-	-	1	Observation	Peregrine Falcon		ERM
6-Sep-24	Fall Waterbirds	MC14_20240906_10:28:00	-	-	2	Observation	Sik Sik		ERM
6-Sep-24	Fall Waterbirds	MC14_20240906_10:28:00	-	-	1	Observation	Common Redpoll		ERM
6-Sep-24	Fall Waterbirds	Mc11_20240906_09:34:00	-	-	1	Observation	Herring Gull		ERM
6-Sep-24	Fall Waterbirds	MC16_20240906_11:15:00	-	-	1	Observation	Lapland Longspur		ERM
6-Sep-24	Fall Waterbirds	MI06_20240906_14:33:00	-	-	1	Observation	Lapland Longspur		ERM
6-Sep-24	Fall Waterbirds	MC15_20240906_10:54:00	-	-	2	Observation	Lapland Longspur		ERM
6-Sep-24	Fall Waterbirds	MI12_20240906_12:56:00	-	-	2	Observation	Lapland Longspur		ERM
6-Sep-24	Fall Waterbirds	MI04_20240906_13:25:00	-	-	2	Observation	Lapland Longspur		ERM
6-Sep-24	Fall Waterbirds	MC14_20240906_10:28:00	-	-	3	Observation	Lapland Longspur		ERM
6-Sep-24	Fall Waterbirds	Mc11_20240906_09:34:00	-	-	3	Observation	Yellow-billed Loon		ERM
6-Sep-24	Fall Waterbirds	MI12_20240906_12:56:00	-	-	4	Observation	Common Redpoll		ERM
6-Sep-24	Fall Waterbirds	MI11_20240906_14:14:00	-	-	4	Observation	Tundra Swan		ERM
6-Sep-24	Fall Waterbirds	Mc12_20240906_09:10:00	-	-	5	Observation	Lapland Longspur		ERM
6-Sep-24	Fall Waterbirds	MI06_20240906_14:33:00	-	-	8	Observation	Greater Scaup		ERM
6-Sep-24	Fall Waterbirds	MI06_20240906_14:33:00	-	-	17	Observation	Common Redpoll		ERM
6-Sep-24	Fall Waterbirds	MC16_20240906_11:15:00	-	-	18	Observation	Red-breasted Merganser		ERM
6-Sep-24	Fall Waterbirds	MI06_20240906_14:33:00	-	-	23	Observation	Canada Goose		ERM
6-Sep-24	Fall Waterbirds	MC14_20240906_10:28:00	-	-	35	Observation	Unidentified Goose		ERM
7-Sep-24	Fall Waterbirds	Gc14_20240907_14:14:00	-	-	1	Observation	Caribou		ERM
7-Sep-24	Fall Waterbirds	GI14_20240906_15:49:00	-	-	3	Observation	Caribou		ERM
7-Sep-24	Fall Waterbirds	GI13_20240906_16:10:00	-	-	13	Observation	Caribou		ERM
7-Sep-24	Fall Waterbirds	GI08_20240906_16:33:00	-	-	1	Observation	Caribou		ERM
7-Sep-24	Fall Waterbirds	EC02_20240907_15:27:00	-	-	50	Observation	Caribou		ERM
7-Sep-24	Fall Waterbirds	EC04_20240907_16:19:00	-	-	20	Observation	Caribou		ERM
7-Sep-24	Fall Waterbirds	EC03_20240909_10:34:00	-	-	4	Observation	Caribou		ERM
7-Sep-24	Fall Waterbirds	EC01_20240909_11:14:00	-	-	6	Observation	Caribou		ERM
7-Sep-24	Fall Waterbirds	EC01_20240909_11:14:00	-	-	1	Observation	Golden Eagle		ERM
7-Sep-24	Fall Waterbirds	EC01_20240909_11:14:00	-	-	1	Observation	Muskox		ERM
7-Sep-24	Fall Waterbirds	GI11_20240907_14:36:00	-	-	5	Observation	Muskox		ERM
7-Sep-24	Fall Waterbirds	GI12_20240907_15:58:00	-	-	21	Observation	Muskox		ERM
7-Sep-24	Fall Waterbirds	Gc14_20240907_14:14:00	-	-	1	Observation	Short Eared Owl		ERM
7-Sep-24	Fall Waterbirds	GI14_20240906_15:49:00	-	-	1	Observation	Sik Sik		ERM
7-Sep-24	Fall Waterbirds	GI08_20240906_16:33:00	-	-	1	Observation	Unidentified Raptor		ERM
7-Sep-24	Fall Waterbirds	Gc08_20240907_12:46:00	-	-	1	Observation	American Pipit		ERM
7-Sep-24	Fall Waterbirds	Gc13_20240907_13:42:00	-	-	1	Observation	American Pipit		ERM
7-Sep-24	Fall Waterbirds	Gc11_20240907_10:44:00	-	-	1	Observation	Common Redpoll		ERM

APPENDIX I: INCIDENTAL WILDLIFE OBSERVATIONS, 2024

Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
7-Sep-24	Fall Waterbirds	GC12_20240907_13:17:00	-	-	1	Observation	Common Redpoll		ERM
7-Sep-24	Fall Waterbirds	EC02_20240907_15:27:00	-	-	1	Observation	Common Redpoll		ERM
7-Sep-24	Fall Waterbirds	EC04_20240907_16:19:00	-	-	1	Observation	Common Redpoll		ERM
7-Sep-24	Fall Waterbirds	Gc11_20240907_10:44:00	-	-	1	Observation	Horned Lark		ERM
7-Sep-24	Fall Waterbirds	GC12_20240907_13:17:00	-	-	1	Observation	Horned Lark		ERM
7-Sep-24	Fall Waterbirds	Gc08_20240907_12:46:00	-	-	1	Observation	Lapland Longspur		ERM
7-Sep-24	Fall Waterbirds	Gc11_20240907_10:44:00	-	-	1	Observation	Pectoral Sandpiper		ERM
7-Sep-24	Fall Waterbirds	GI08_20240906_16:33:00	-	-	1	Observation	Unidentified Duck		ERM
7-Sep-24	Fall Waterbirds	GI13_20240906_16:10:00	-	-	1	Observation	Yellow-billed Loon		ERM
7-Sep-24	Fall Waterbirds	GI16_20240909_10:09:00	-	-	1	Observation	Yellow-billed Loon		ERM
7-Sep-24	Fall Waterbirds	Gc09_20240907_11:13:00	-	-	2	Observation	Lapland Longspur		ERM
7-Sep-24	Fall Waterbirds	GC12_20240907_13:17:00	-	-	2	Observation	Lapland Longspur		ERM
7-Sep-24	Fall Waterbirds	GI08_20240906_16:33:00	-	-	2	Observation	Lapland Longspur		ERM
7-Sep-24	Fall Waterbirds	EC04_20240907_16:19:00	-	-	2	Observation	Lapland Longspur		ERM
7-Sep-24	Fall Waterbirds	EC01_20240909_11:14:00	-	-	2	Observation	Lapland Longspur		ERM
7-Sep-24	Fall Waterbirds	Gc11_20240907_10:44:00	-	-	2	Observation	Willow Ptarmigan		ERM
7-Sep-24	Fall Waterbirds	Gc13_20240907_13:42:00	-	-	3	Observation	Lapland Longspur		ERM
7-Sep-24	Fall Waterbirds	EC03_20240909_10:34:00	-	-	4	Observation	American Pipit		ERM
7-Sep-24	Fall Waterbirds	Gc11_20240907_10:44:00	-	-	4	Observation	Lapland Longspur		ERM
7-Sep-24	Fall Waterbirds	GI16_20240909_10:09:00	-	-	4	Observation	Unidentified Goose		ERM
7-Sep-24	Fall Waterbirds	Gc13_20240907_13:42:00	-	-	6	Observation	Common Redpoll		ERM
7-Sep-24	Fall Waterbirds	EC01_20240909_11:14:00	-	-	8	Observation	Tundra Swan		ERM
7-Sep-24	Fall Waterbirds	EC01_20240909_11:14:00	-	-	11	Observation	Unidentified Goose		ERM
7-Sep-24	Fall Waterbirds	Gc09_20240907_11:13:00	-	-	22	Observation	Greater White-fronted Goose		ERM
7-Sep-24	Fall Waterbirds	GI11_20240907_14:36:00	-	-	25	Observation	Greater White-fronted Goose		ERM
7-Sep-24	Fall Waterbirds	EC01_20240909_11:14:00	-	-	25	Observation	Unidentified Ptarmigan		ERM
7-Sep-24	Fall Waterbirds	EC03_20240909_10:34:00	-	-	33	Observation	Greater White-fronted Goose		ERM
7-Sep-24	Fall Waterbirds	Gc09_20240907_11:13:00	-	-	39	Observation	Willow Ptarmigan		ERM
7-Sep-24	Fall Waterbirds	EC03_20240909_10:34:00	-	-	42	Observation	Canada Goose		ERM
7-Sep-24	Fall Waterbirds	Gc13_20240907_13:42:00	-	-	43	Observation	Tundra Swan		ERM
7-Sep-24	Fall Waterbirds	GI16_20240909_10:09:00	-	-	45	Observation	Canada Goose		ERM
7-Sep-24	Fall Waterbirds	EC03_20240909_10:34:00	-	-	50	Observation	Canada Goose		ERM
8-Sep-24	Fall Waterbirds	T06	-	-	1	Observation	Bald Eagle	flying	ERM
8-Sep-24	Fall Waterbirds	T03	-	-	2	Observation	Caribou		ERM
8-Sep-24	Fall Waterbirds	T04	-	-	1	Observation	Caribou		ERM
8-Sep-24	Fall Waterbirds	T15	-	-	10	Observation	Caribou		ERM
8-Sep-24	Fall Waterbirds	T10	-	-	1	Observation	Cackling Goose		ERM
8-Sep-24	Fall Waterbirds	T12	-	-	1	Observation	Red-breasted Merganser	flying	ERM
8-Sep-24	Fall Waterbirds	T01	-	-	1	Observation	Tundra Swan	on lake outside plot	ERM
8-Sep-24	Fall Waterbirds	T06	-	-	1	Observation	Unidentified Duck	outside of plot. Too far to see species	ERM
8-Sep-24	Fall Waterbirds	T02	-	-	1	Observation	Moose		ERM
8-Sep-24	Fall Waterbirds	T06	-	-	2	Observation	Moose	cow and calf	ERM
8-Sep-24	Fall Waterbirds	T09	-	-	-	Sign	Potential Den	maybe dug up by grizz for siksik	ERM
8-Sep-24	Fall Waterbirds	T11	-	-	-	Sign	Potential Den	wolverine?	ERM
8-Sep-24	Fall Waterbirds	T01	-	-	1	Observation	Red fox		ERM
9-Sep-24	Fall Waterbirds	T17	-	-	2	Observation	Caribou		ERM
9-Sep-24	Fall Waterbirds	T18	-	-	1	Observation	Caribou		ERM
9-Sep-24	Fall Waterbirds	T18	-	-	7	Observation	Caribou		ERM
9-Sep-24	Fall Waterbirds	T18	-	-	30	Observation	Caribou		ERM
9-Sep-24	Fall Waterbirds	T19	-	-	4	Observation	Caribou		ERM
9-Sep-24	Fall Waterbirds	T20	-	-	8	Observation	Caribou		ERM
9-Sep-24	Fall Waterbirds	T20	-	-	3	Observation	Caribou	cow and calf	ERM
9-Sep-24	Fall Waterbirds	T21	-	-	10	Observation	Caribou		ERM

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Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
9-Sep-24	Fall Waterbirds	T22	-	-	2	Observation	Caribou		ERM
9-Sep-24	Fall Waterbirds	T22	-	-	1	Observation	Caribou		ERM
9-Sep-24	Fall Waterbirds	T22	-	-	3	Observation	Caribou		ERM
9-Sep-24	Fall Waterbirds	T23	-	-	6	Observation	Caribou		ERM
9-Sep-24	Fall Waterbirds	T23	-	-	2	Observation	Caribou		ERM
9-Sep-24	Fall Waterbirds	T23	-	-	2	Observation	Caribou		ERM
9-Sep-24	Fall Waterbirds	T24	-	-	10	Observation	Caribou		ERM
9-Sep-24	Fall Waterbirds	T21	-	-	1	Observation	Grizzly Bear	Was heading towards the muskox. Heli king of pushed it away	ERM
9-Sep-24	Fall Waterbirds	T21	-	-	1	Observation	Unidentified Ptarmigan		ERM
9-Sep-24	Fall Waterbirds	T22	-	-	1	Observation	Unidentified Ptarmigan		ERM
9-Sep-24	Fall Waterbirds	T21	-	-	3	Observation	Muskox	bedded	ERM
9-Sep-24	Fall Waterbirds	T21	-	-	30	Observation	Muskox	bedded	ERM
9-Sep-24	Fall Waterbirds	T24	-	-	-	Sign	Potential Den	couldn't see how deep. Siksik den near	ERM
-	B2Gold Nunavut	Goose Lower camp	-	-	1	Observation	Caribou	Running on airport road	Gracey Olson
21-Mar-24	B2Gold Nunavut	MLA Fuel Tanks	-	-	1	Observation	Moose	Adam called on radio. Walking	Ida Porter
21-Apr-24	B2Gold Nunavut	WIR Saddle	-	-	1	Observation	Moose	Resting	Joe DiCocco
21-Apr-24	B2Gold Nunavut	WIR Saddle	-	-	150	Observation	Caribou	Walking	Joe DiCocco
24-Apr-24	B2Gold Nunavut	WIR Saddle	-	-	1	Observation	Moose	Feeding & Resting	Joe DiCocco
25-May-24	B2Gold Nunavut	MLA Inlet	-	-	1	Observation	Caribou	Stated as herd, but number not given. SO stated a 1.	Joe McLean
5-Jul-24	B2Gold Nunavut	MLA Beach	-	-	3	Observation	Caribou	Feeding & resting	Johnny
8-Jul-24	B2Gold Nunavut	MLA Camp	-	-	4	Observation	Caribou	Walking	Johnny
10-Jul-24	B2Gold Nunavut	MLA Airstrip	-	-	4	Observation	Caribou	walking and feeding around camp	Johnny
12-Jul-24	B2Gold Nunavut	MLA Airstrip	-	-	3	Observation	Caribou	walking feeding around camp	Johnny
14-Jul-24	B2Gold Nunavut	MLA Camp	-	-	4	Observation	Caribou	ran way from bear yesterday	Johnny
15-Jul-24	B2Gold Nunavut	MLA Camp	-	-	4	Observation	Caribou	feeding and walking	Johnny
16-Jul-24	B2Gold Nunavut	MLA Camp	-	-	5	Observation	Caribou	n/a	Johnny
17-Jul-24	B2Gold Nunavut	MLA Pipeline	-	-	4	Observation	Caribou	n/a	Johnny
8-Aug-24	B2Gold Nunavut	MLA Pipeline	-	-	3	Observation	Caribou	Feeding and resting	Johnny
9-Aug-24	B2Gold Nunavut	MLA Accommodations, Incinerator, Fuel tanks, Laydown and Airstrip	-	-	10	Observation	Caribou	Feeding, resting, walking	Johnny
10-Aug-24	B2Gold Nunavut	MLA Fuel tanks	-	-	8	Observation	Caribou	Feeding, resting, walking	Johnny
11-Aug-24	B2Gold Nunavut	MLA Incinerator, Fuel tanks and Airstrip	-	-	7	Observation	Caribou	Feeding, resting, walking	Johnny
12-Aug-24	B2Gold Nunavut	MLA Fuel tanks and Airstrip	-	-	5	Observation	Caribou	Feeding, resting, walking	Johnny
13-Aug-24	B2Gold Nunavut	MLA Pipeline	-	-	3	Observation	Caribou	Feeding, resting, walking	Johnny
14-Aug-24	B2Gold Nunavut	MLA Pipeline	-	-	7	Observation	Caribou	Feeding, resting, walking	Johnny
15-Aug-24	B2Gold Nunavut	MLA Fuel Tanks	-	-	8	Observation	Caribou	Feeding, resting, walking	Johnny
16-Aug-24	B2Gold Nunavut	MLA Incinerator	-	-	8	Observation	Caribou	Feeding, resting, walking	Johnny
17-Aug-24	B2Gold Nunavut	MLA Fuel Tanks	-	-	8	Observation	Caribou	Feeding, resting, walking	Johnny
18-Aug-24	B2Gold Nunavut	MLA Pipeline	-	-	3	Observation	Caribou	Feeding, resting, walking	Johnny
14-Nov-24	B2Gold Nunavut	Goose Exploration	-	-	1	Observation	Unspecified Fox		Johnny L.
19-Nov-24	B2Gold Nunavut	Goose Exploration	-	-	4	Observation	Ermine/stote/weasel	inside dry. Live captured and relocated (x4)	Johnny L.
20-Nov-24	B2Gold Nunavut	Goose Exploration	-	-	1	Observation	Unspecified Fox		Johnny L.
2-Sep-24	B2Gold Nunavut	Goose Upper camp kitchen	-	-	1	Observation	Unspecified Fox	Few locations around camp. Was around kitchen area.	Jordan Site
15-Dec-24	B2Gold Nunavut	Goose Echo Pit Road	-	-	1	Observation	Unspecified Fox	Running across road	Lennette Pierce
16-Dec-24	B2Gold Nunavut	Goose Camp Kitchen	-	-	1	Observation	Arctic fox	Walking, behind camp kitchen. White fox.	Lennette Pierce
16-Dec-24	B2Gold Nunavut	Goose Airport Road	-	-	1	Observation	Unspecified Fox	Brown fox walking along edge of road	Lennette Pierce
17-Dec-24	B2Gold Nunavut	Goose Haul Road	-	-	1	Observation	Hare	White rabbit running along side of road.	Lennette Pierce
17-Dec-24	B2Gold Nunavut	Goose Key Trench	-	-	1	Observation	Unspecified Fox	Walking	Lennette Pierce
18-Dec-24	B2Gold Nunavut	Goose Haul Road	-	-	1	Observation	Arctic fox	White fox Running on haul by underground mine entrance	Lennette Pierce
18-Dec-24	B2Gold Nunavut	Goose Key Trench	-	-	1	Observation	Hare	White rabbit running alongside of key trench road	Lennette Pierce
18-Dec-24	B2Gold Nunavut	Goose Haul Road	-	-	1	Observation	Red Fox	Brown fox Crossing haul road towards key trench	Lennette Pierce
18-Dec-24	B2Gold Nunavut	Goose Haul Road	-	-	1	Observation	Red Fox	Brown Fox running across road from underground mine	Lennette Pierce
5-Dec-24	B2Gold Nunavut	WIR Lake 1	-	-	1	Observation	Unspecified Fox	Walking	Matt Levicki

APPENDIX I: INCIDENTAL WILDLIFE OBSERVATIONS, 2024

Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
29-Mar-24	B2Gold Nunavut	WIR	-	-	1	Observation	Grey Wolf	Wolf chasing caribou	Mike steward
29-Mar-24	B2Gold Nunavut	WIR	-	-	4	Observation	Caribou	Wolf chasing caribou	Mike steward
21-Apr-24	B2Gold Nunavut	WIR	-	-	1	Observation	Grizzly bear	Reported by truckers to Mitch. Gotten from Daily Email	Mitch
18-Apr-24	B2Gold Nunavut	MLA	-	-	1	Observation	Wolverine	-	-
17-Jul-24	B2Gold Nunavut	Goose Airstrip	-	-	1	Observation	Caribou	Caribou crossing runway numerous times	Nathan Bateman
18-Jul-24	B2Gold Nunavut	Goose Airstrip	-	-	1	Observation	Caribou	Walking on runway	Nathan Bateman
29-Apr-24	B2Gold Nunavut	Goose Lower camp	-	-	1	Observation	Wolverine	Nathan spotted wolverine by major drilling laydown	Nathan Bateman
12-Mar-24	B2Gold Nunavut	Goose In Camp	-	-	1	Observation	Wolverine	Seen outside of kitchen after getting into a bag of garbage in loading	Night shift cook staff
5-Jul-24	B2Gold Nunavut	Goose Airstrip	-	-	1	Observation	Caribou	hanging out near airstrip	No name
26-Nov-24	B2Gold Nunavut	Goose Exploration	-	-	1	Observation	Unspecified Fox	back kitchen door	Paul W.
9-Apr-24	B2Gold Nunavut	Goose Old Camp Incinerator	-	-	2	Observation	Wolverine	Walking on Goose lake towards incinerator. Problem wolverine(s) at old incinerator. Has successfully feasted on food waste kept inside incinerator (gaps in garage doors). Gaps fully covered on April 8. 24-hour patrol initiated evening of April 8th. Morning of April 9 wolverine observed to be returning to incinerator from goose lake (east of incinerator). CL discharged bear banger at ~ 150 yards away (0411h). Animal turned around and ran east, away from incinerator. Animal returned at 0455h; another banger discharged and animal turned around and ran away. Two wolverines observed (1 large, 1 small). Env. superintendent notified CO services in Kugluktuk re: wolverine issue and our phased response.	Chris Lund
19-Aug-24	B2Gold Nunavut	Goose New Rwy Apron	-	-	1	Observation	Wolverine	Running	Raul with Nahami
1-Mar-24	B2Gold Nunavut	Goose In camp	-	-	1	Observation	Arctic fox	Seen outside major dry	Rob L.
19-Jul-24	B2Gold Nunavut	Goose Airstrip	-	-	3	Observation	Caribou	Just standing at the airstrip	Scott Mcleod
13-Mar-24	B2Gold Nunavut	Goose men's dry	-	-	1	Observation	Weasel	Seen outside men's dry in industrial washer/ dryer area	Susan
16-Dec-24	B2Gold Nunavut	Goose Rebar Tent	-	-	1	Observation	Arctic fox	White fox, walking behind rebar tent	Susan Funk
29-Aug-24	B2Gold Nunavut	MLA	-	-	1	Observation	Peregrine Falcon	Resting	Tor. D
7-Mar-24	B2Gold Nunavut	Goose MLA Forward Camp	-	-	-	Sign	Scat - Unspecified Fox	Room 30 window. I think fox scat. Ptarmigan tracks too	Tracy Forrest, BBE
8-Mar-24	B2Gold Nunavut	WIR 70km	-	-	1	Observation	Moose	Feeding	Troy Dilocco
17-Apr-24	B2Gold Nunavut	WIR 98 Km	-	-	11	Observation	Caribou	98 Km WIR	-
25-Apr-24	B2Gold Nunavut	WIR Lake 11	-	-	50	Observation	Caribou	Lake # 11	-
7-Sep-24	B2Gold Nunavut		-	-	2	Observation	Peregrine Falcon	around infrastructure. Linked to dead ptarmigan likely	-
12-Nov-24	B2Gold Nunavut	Goose	-	-	1	Observation	Grey Wolf	wolf killed	-
20-Dec-24	B2Gold Nunavut	Goose Exploration	10	-	1	Observation	Unspecified Fox	sniffing around	Johnny
5-Sep-24	B2Gold Nunavut	MLA	90	-	4	Observation	Caribou	Feeding, resting, walking	Cant read name
1-Jul-24	B2Gold Nunavut	Goose Airstrip	V14.5 on Map	-	1	Observation	Caribou	Was seen walking, eating, then laying down to rest. No collar. MS: Likely same caribou as by major shop. Resident seen in area frequently.	Colin Vandermeer (Flight Ops)
5-Sep-24	B2Gold Nunavut	MLA	140	-	13	Observation	Caribou	Feeding, resting, walking	Cant read name
1-Oct-24	B2Gold Nunavut	Goose Main camp	150	-	4	Observation	Grizzly bear	West side of camp behind the mine dry. Walking, began digging a den. Mother and 3 large cubs	Jane Quackenbush
24-Aug-24	B2Gold Nunavut	WIR Goose Forward Camp	1000	-	1	Observation	Caribou	Walking toward forward camp	Steve C
24-Aug-24	B2Gold Nunavut	Goose Esker Borrow	1000	-	1	Observation	Muskox	Standing on beach near esker borrow	Tyler Forget
6-Sep-24	B2Gold Nunavut	MLA	180	-	6	Observation	Caribou	Feeding, resting, walking	Cant read name
7-Sep-24	B2Gold Nunavut	MLA	180	-	9	Observation	Caribou	Feeding, resting, walking	Cant read name
3-Dec-24	B2Gold Nunavut	MLA Aviation Shop	200	-	1	Observation	Arctic fox	Walking around	Tom White
30-Apr-24	B2Gold Nunavut	MLA Fuel Tanks	500	-	14	Observation	Caribou	Feeding & Resting	Landon Epsilon
20-Apr-24	B2Gold Nunavut	WIR KM 6	600	-	30	Observation	Caribou	Sighted 25-30 Caribou approximately 600m SE of WIR at KM 6. Caribou were grazing.	Christian Standing
3-Jul-24	B2Gold Nunavut	Goose Airstrip	Between airstrip and explosives	-	1	Observation	Caribou	Grazing and bedded down. No Collar	Colin Vandermeer (Flight Ops)
4-Jul-24	B2Gold Nunavut	Goose Airstrip	Between airstrip and flight ops (south side of airstrip access road)	-	1	Observation	Caribou	Grazing and heading towards airstrip. No collar	Jane Quackenbush, Chris LeGoffe
	B2Gold Nunavut	Goose Lower camp	-	-	3	Observation	Unknown Bird	Resting	Ben Boudreault

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Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
10-Oct-24	B2Gold Nunavut	Goose Lake	-	-	1	Observation	Grey Wolf	Observed female caribou in Goose Lake ~ 50 ft from shoreline. Wolf observed hanging out on shore - assumed that the wolf chased the caribou onto the ice where it fell through and got stuck.	Chris LeGoffe
2-Oct-24	B2Gold Nunavut	Goose Emulsion Plant	-	-	20	Observation	Caribou	Walking eating and running. No noticeable collar.	Jane Quackenbush
11-Jul-24	B2Gold Nunavut	Goose Airstrip	W15 on Map	-	1	Observation	Caribou	737 aircraft was on a 7 mile final when we spotted it. Crossed runway multiple times a day. Grazing at old camp	Colin Vandermeear
8-Jul-24	B2Gold Nunavut	Goose Airstrip	W14 on Map	-	1	Observation	Caribou	Caribou has been around airport for a few days. Crossed runway 12:30	Colin Vandermeear
7-Jul-24	B2Gold Nunavut	Goose Airstrip	X13 on Map	-	1	Observation	Caribou	Caribou has crossed runway numerous times. Walking/resting around old camp/airstrip	Colin Vandermeear
7-Oct-24	B2Gold Nunavut	Goose West of Camp (by annex/mine dry)	-	-	1	Observation	Grey Wolf	Wolf ~ 50 m from edge of camp pad walking around camp	-
16-Jul-24	B2Gold Nunavut	Goose By storage pad at Exploration	6	East	12	Observation	Geese	Two families crossing the road	Abigail Amo
18-May-24	B2Gold Nunavut	Goose Lower camp	400	East	1	Observation	Grizzly bear	N/A	R. Davidson
25-May-24	B2Gold Nunavut	Goose Lower camp	1000	East	1	Observation	Wolverine	Wolverine was running along far side of lake in the direction of the incinerator.	Tim Brown
21-Jun-24	B2Gold Nunavut	Goose Boot	1000	East	1	Observation	Grey Wolf	Spotted running by crew member at a range of 100 m. Animal left area.	Tina Steen
9-Jul-24	B2Gold Nunavut	MLA Fuel Tanks	-	East	1	Observation	Caribou	Walking	Johnny
19-Aug-24	B2Gold Nunavut	MLA Pipeline	-	East	5	Observation	Caribou	Feeding, resting, walking	Johnny
28-Aug-24	B2Gold Nunavut	MLA Fuel Tanks	-	East	2	Observation	Caribou	Feeding, resting, walking	Johnny
6-Oct-24	B2Gold Nunavut	MLA	7000	East	1	Observation	Caribou	Walking / feeding	Johnny
12-Aug-24	B2Gold Nunavut	MLA Pipeline	300	Heading east to shore	1	Observation	Grey Wolf	Healthy, casually walking. No signs of aggression	Amber. M
14-Aug-24	B2Gold Nunavut	Goose Dustfall (S of ROM pad), Air strip, Dustfall Reference, Esker Borrow Pit	100	Multiple	8	Observation	Caribou	grazing at all locations. Combination of bull and females and calves	Chris L /Jane Q
25-Jan-24	B2Gold Nunavut	MLA	15000	North	1	Observation	Moose	-	Joe Colin
16-Mar-24	B2Gold Nunavut	Goose Open-pit	75000	North	1	Observation	Wolverine	-	Ryan
19-Mar-24	B2Gold Nunavut	Goose Lamba Road	-	North	1	Observation	Grey Wolf	-	Albert
27-Mar-24	B2Gold Nunavut	WIR P22	-	North	1	Observation	Wolverine	-	Brett Graved
16-Feb-24	B2Gold Nunavut	Goose Airstrip	0	North	1	Observation	Unspecified Fox	Little guy	Kevin Sharp
16-Sep-24	B2Gold Nunavut	Goose Main Camp	H12.5, J12.5 on Map	-	1	Observation	Grey Wolf	Walking down haul road, timid and ran from trucks. Wolf ran away down berm towards goose lake and kept running into the tundra towards llama. Returned at 4am Sep 17 behind camp, ran down berm and ran nw into the tundra went out of sight.	Jane Quackenbush
2-Jun-24	B2Gold Nunavut	Goose Camp	1000	North East	1	Observation	Unspecified Fox	One fox was hanging around drillers laydown.	Barry Westerland
1-Aug-24	B2Gold Nunavut	Goose Main camp	50	North	1	Observation	Muskox	Observed by main camp feeding	Abigail Amo
20-Jun-24	B2Gold Nunavut	Goose Main camp	100	North	2	Observation	Muskox	Grazing	Chris LeGoffe
1-Jul-24	B2Gold Nunavut	MLA Airstrip	100	North	1	Observation	Caribou	Walking	Joe D.
29-May-24	B2Gold Nunavut	Goose Big Lake Outlet	138	North	1	Observation	Caribou	Caribou crossed big lake outlet, went to pile of snow and laid on it for hours.	Matheus Do'Oliviera
14-May-24	B2Gold Nunavut	Goose Lake	200	North	40	Observation	Canada Goose	Flock of approx. 40 Canada Goose flying north over goose lake.	Christian Standring
3-Jul-24	B2Gold Nunavut	MLA Incinerator	300	North	2	Observation	Caribou	Feeding & resting	Johnny
6-Dec-24	B2Gold Nunavut	MLA Maintenance Shop Yard	500	North	1	Observation	Unspecified Fox	Looking around yard. Not scared of people at all	Dustin Kammerer
26-Jul-24	B2Gold Nunavut	Goose Exploration camp	800	North	700	Observation	Caribou	Just crossing	Mitch and Clarence
20-Jun-24	B2Gold Nunavut	Goose Approximately 1 Km west of Umwelt excavation/ Key Trench	1000	North	2	Observation	Caribou	Grazing	Abigail Amo
13-Jul-24	B2Gold Nunavut	MLA	6000	North	1	Observation	Grizzly bear	6km North bar chasing caribou	Johnny
22-Apr-24	B2Gold Nunavut	WIR Portage 4	9000	North	40	Observation	Caribou	Portage 4	-
27-Jul-24	B2Gold Nunavut	Goose Boot	10000	North	1	Observation	Caribou	Calf, resting	Matt Mendes
28-Jul-24	B2Gold Nunavut	GooseBoot	10000	North	10	Observation	Caribou	About 10 caribou throughout the day	Matt Mendes
25-Jul-24	B2Gold Nunavut	Goose North of camp	20000	North	1	Observation	Grizzly bear	No comment	Rob Jones
8-Apr-24	B2Gold Nunavut	Goose	34000	North	8	Observation	Grey Wolf	-	-
21-Apr-24	B2Gold Nunavut	WIR Portage 15	55000	North	1	Observation	Grizzly bear	Grizzly @portage 15	-
28-May-24	B2Gold Nunavut	Goose SE of Exploration	-	North	1	Observation	Caribou	Caribou walking north around far side of goose lake	Christian Standring
4-Jul-24	B2Gold Nunavut	MLA Airstrip	-	North	1	Observation	Caribou	Walking	Szenti

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21-Oct-24	B2Gold Nunavut	MLA Air Strip	1500	North	1	Observation	Unspecified Fox	Walking	Maintenance
26-Aug-24	B2Gold Nunavut	Goose Key Trench	1000	north	2	Observation	Caribou	Caribou at the key trench	Chris c
24-May-24	B2Gold Nunavut	Goose Lower camp	300	North East	1	Observation	Wolverine	Wolverine spotted on NE side of goose lake feeding on something.	Christian Standring
31-Mar-24	B2Gold Nunavut	WIR P20-21	-	North forward Camp	50	Observation	Caribou	Near the camera	Roland Schmid
3-Nov-24	B2Gold Nunavut	MLA Aviation Shop	30	North West	1	Observation	Unspecified Fox	Calm behavior	Kyle S
29-Apr-24	B2Gold Nunavut	WIR George	-	North East	1	Observation	Grey Wolf	-	Ryan
16-Apr-24	B2Gold Nunavut	Goose Incinerator	200	North West	1	Observation	Wolverine	incinerator operator saw wolverine approaching incinerator area approximately 200m away	Dexter Maniyogina
18-Apr-24	B2Gold Nunavut	Goose (65.4527035, -106.2567515)	-	-	20	Observation	Caribou	During WSP AEMP field work, the consultant biologists sighted these caribou approximately 13-15 km southeast of Goose Lake	Amy Cardinal and Michael Kovacs
26-Mar-24	B2Gold Nunavut	Goose Mine Rescue Tent	-	-	1	Observation	Red Fox	There is a fox that is too friendly and comfortable around site. It comes right up to trucks and was sniffing the ground in front of the mine rescue tent. There are new hires and maybe they don't know how bad it is to feed animals but its behaviour tells me it has been being fed. I was told by someone that they had actually seen a driller throw a sandwich out the window. My suggestion is that the seriousness of feeding the wildlife is emphasized often so that new hires understand.	Susan Funk
8-Feb-24	B2Gold Nunavut	Goose Flight Ops Tower	800	North West	1	Observation	Arctic Fox	Silver Fox	D. Hahn
4-Mar-24	B2Gold Nunavut	MLA Incinerator	2500	North West	1	Observation	Moose	-	Matt & Bob
1-Aug-24	B2Gold Nunavut	Goose Boulder	2500	North West	1	Observation	Grizzly bear	No issues, Heli encountered it to depart.	Rob J
29-Feb-24	B2Gold Nunavut	Goose Quarry	0	South	1	Observation	Grey Wolf	Arctic Wolf seen in quarry (temporary landfill). As truck pulled in wolf ran away quickly to the South.	Christian Standring
22-Feb-24	B2Gold Nunavut	Goose Dump	0	South	1	Observation	Wolverine	Wolverine	Dexter Maniyogina
9-Mar-24	B2Gold Nunavut	Goose Site Services	5	South	1	Observation	Wolverine	-	Dester
23-Mar-24	B2Gold Nunavut	Goose Warehouse	50	South	1	Observation	Unspecified Fox	-	Scott Mcleod
8-Feb-24	B2Gold Nunavut	Goose Flight Ops Tower	1600	South	6	Observation	Muskox	-	D. Hahn
10-Mar-24	B2Gold Nunavut	WIR 69KM	-	South	1	Observation	Grey Wolf	Walking	Brett Wildman
2-Mar-24	B2Gold Nunavut	Goose Echo Pit	300	South East	1	Observation	Red Fox	Red fox chasing two Arctic Hares	Christian Standring
30-Oct-24	B2Gold Nunavut	Goose Camp	0	South	1	Observation	Unspecified Fox	-	Steven
26-Jul-24	B2Gold Nunavut	Goose Exploration camp	5	South	80	Observation	Caribou	Feeding 10 m away from the incinerator. Later observed running as they were being chased by something like a wolf	Abigail Amo & Adam
21-May-24	B2Gold Nunavut	Goose Drill Pad	10	South	1	Observation	Unspecified Fox	Hanging out near rig 1498	Keith Ferguson
19-Jul-24	B2Gold Nunavut	Goose Major	10	South	1	Observation	Caribou	Calf, walking and resting	Rob Jones
10-Jun-24	B2Gold Nunavut	Goose Between Primary pond and main camp	20	South	1	Observation	Grizzly bear	Travelling through site (between primary pond and main camp)	Alex
-	B2Gold Nunavut	Goose Lower camp	25	South	1	Observation	Caribou	Feeding	Rob Jones
23-Jun-24	B2Gold Nunavut	Goose Incinerator	100	South	1	Observation	Grey Wolf	Wolf spotted by the incinerator	Chris LeGoffe
29-Jul-24	B2Gold Nunavut	Goose Construction	100	South	4	Observation	Caribou	Just passing through site	Jason Albert
19-May-24	B2Gold Nunavut	Goose Rig 1507	100	South	1	Observation	Unspecified Fox	Fox carrying small animal, stopped to eat it, then walk with along road.	Keith Ferguson
24-Apr-24	B2Gold Nunavut	Goose Airstrip	183	South	1	Observation	Wolverine	Daryl on dozer reported sighting	Nathan Batemon
23-Jun-24	B2Gold Nunavut	Goose Boot	500	South	1	Observation	Caribou	Feeding in the south of the grid	Jayden Platt & Sean Gunne
25-Jun-24	B2Gold Nunavut	Goose Boulder	500	South	3	Observation	Caribou	3 caribou encountered crew members and swam across a lake.	Jayden Platt & Tina Steen
4-Dec-24	B2Gold Nunavut	MLA Lower Laydown	500	South	1	Observation	Unspecified Fox	Running across parking lot	Jessica Wilkinson
27-Oct-24	B2Gold Nunavut	MLA Camp	500	South	1	Observation	Unspecified Fox	Walking	Site Services
1-Dec-24	B2Gold Nunavut	MLA Desal	500	South	1	Observation	Unspecified Fox	Walking	Site Services
7-Jul-24	B2Gold Nunavut	MLA Airstrip	1500	South	4	Observation	Caribou	Feeding & resting	Johnny
13-Jun-24	B2Gold Nunavut	Goose Boot	4000	South	4	Observation	Grizzly bear	One mom and three cubs were spotted by two crew members at a distance of 200m.	Sean Gunne & Borja MonCunill
10-Jun-24	B2Gold Nunavut	Goose New Camp	-	South	1	Observation	Grizzly bear	Bear sparked by helicopter ran south.	-
22-Jul-24	B2Gold Nunavut	Goose Echo haul road	-	South	1	Observation	Caribou	Just running on road. Everyone at Echo was told to slow down	Abigail Amo
29-Mar-24	B2Gold Nunavut	WIR P3 North	-	South	1	Observation	Caribou	Watched wolf take caribou down	Hughie Rehm
29-Mar-24	B2Gold Nunavut	WIR P3 North	-	South	1	Observation	Grey Wolf	Watched wolf take caribou down	Hughie Rehm
21-Aug-24	B2Gold Nunavut	MLA Fuel Tanks	-	South	1	Observation	Caribou	Feeding, resting, walking	Johnny
22-Aug-24	B2Gold Nunavut	MLA Fuel Tanks	-	South	4	Observation	Caribou	Feeding, resting, walking	Johnny

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Date	Program	Location	Distance from Location (m)	Direction of Travel (N/E/S/W)	Number	Obs/Sign	Type of Animal	Comments	Observer
23-Aug-24	B2Gold Nunavut	MLA Fuel Tanks	-	South	5	Observation	Caribou	Feeding, resting, walking	Johnny
25-Aug-24	B2Gold Nunavut	MLA Fuel Tanks	-	South	1	Observation	Caribou	Feeding, resting, walking	Johnny
26-Aug-24	B2Gold Nunavut	MLA Fuel Tanks	-	South	1	Observation	Caribou	Feeding, resting, walking	Johnny
27-Aug-24	B2Gold Nunavut	MLA Fuel Tanks	-	South	1	Observation	Caribou	Feeding, resting, walking	Johnny
9-Apr-24	B2Gold Nunavut	WIR P22	-	South	100	Observation	Caribou	Portage 22	-
12-Apr-24	B2Gold Nunavut	WIR P2	-	South	5	Observation	Caribou	Portage 2	-
13-Apr-24	B2Gold Nunavut	WIR P2	-	South	11	Observation	Caribou	Portage 2	-
12-Nov-24	B2Gold Nunavut	Goose Exploration	0.5	south	1	Observation	Unspecified Fox		Ben B.
1-Nov-24	B2Gold Nunavut	Goose	1000	South	1	Observation	Grey Wolf		Cant read name
25-Aug-24	B2Gold Nunavut	Goose	1000	South	17	Observation	Geese	Geese Flying south for the winter	Tyler
11-May-24	B2Gold Nunavut	Goose	1000	South	1	Observation	Wolverine or Bear	Either wolverine or bear, not completely sure	Kyle
15-May-24	B2Gold Nunavut	Goose Lake	200	South East	1	Observation	Red Fox	Red fox walking	Keith Ferguson
24-Apr-24	B2Gold Nunavut	Goose Lower camp	150	South of incinerator	1	Observation	Wolverine	Observed by incinerator. Hazed with a single shot of banger by Mike E. Moved it off to the further South.	Abigail Amo
24-Apr-24	B2Gold Nunavut	Goose Lower camp	150	South of incinerator	1	Observation	Wolverine	Running South from end of runway	Rob Davidson
24-May-24	B2Gold Nunavut	Goose	800	South West	1	Observation	Grey Wolf	Saw it beside the road.	David Marshall
16-Apr-24	B2Gold Nunavut	Goose Echo Pit	183	South East	1	Observation	Wolverine	Rob Davidson spotted wolverine	Colin Vandermet
19-Jul-24	B2Gold Nunavut	Goose By quarry	50	South West	50	Observation	Caribou	Passing through site	Abigail Amo & Clarence K.
19-Jul-24	B2Gold Nunavut	Goose Exploration camp	2000	South West	600	Observation	Caribou	Stationary herd. 0429472, 7259086	Pilot
25-Jan-24	B2Gold Nunavut	MLA	25000	-	1	Observation	Moose	-	Joe Colin
4-Jun-24	B2Gold Nunavut	Goose Haul Road	1000	South West	1	Observation	Unspecified Fox	Spotted near the esker pile	Barry Westerland
11-Mar-24	B2Gold Nunavut	Goose Camp Room 43	-	South West	1	Observation	Red Fox	Seen outside of cabin 143, ran off toward major stop. Hasn't returned yet today	Cody Layla
12-Nov-24	B2Gold Nunavut	Goose Exploration	15	South West	1	Observation	Grey Wolf	sick wolf	Johny L.
16-Jan-24	B2Gold Nunavut	Goose Quarry	100	West	1	Observation	Wolverine	Dexter Maniyogina called in a wolverine sighting. It ran toward crush pad and out of sight.	Dexter Maniyogina
26-Jan-24	B2Gold Nunavut	Goose Incinerator	500	West	1	Observation	Wolverine	Chris Crewe (Nahanni) said his crew saw a wolverine 500m from incinerator area heading away from camp.	Chris Crewe
18-Mar-24	B2Gold Nunavut	Goose Open-pit	1500	West	1	Observation	Grey Wolf	-	-
25-Jun-24	B2Gold Nunavut	Goose Echo Pit	1500	South West/ West	1	Observation	Grey Wolf	Similar looking wolf as previous sighting. Does not seem shy.	Sheldon Mason
6-Jun-24	B2Gold Nunavut	Goose Echo Pit	30	West	1	Observation	Grey Wolf	Travelling through site	Thomas Bolt
24-Jul-24	B2Gold Nunavut	Goose Primary pond	100	West	1	Observation	Muskox	Just feeding	James B.
6-Apr-24	B2Gold Nunavut	Goose Lower camp	100	West	1	Observation	Wolverine	Airhorn blast to East beyond sight	Rob Davidson
7-Apr-24	B2Gold Nunavut	Goose Lower camp	200	West	1	Observation	Wolverine	-	Rob Davidson
5-Apr-24	B2Gold Nunavut	Goose Lower camp	250	West	1	Observation	Wolverine	-	Rob Davidson
19-Dec-24	B2Gold Nunavut	MLA Apron	500	West	1	Observation	Unspecified Fox	Walking	Kenny
4-Mar-24	B2Gold Nunavut	Goose	600	West	1	Observation	Wolverine	Travelling back towards ove pads (back)	Cathy
18-Aug-24	B2Gold Nunavut	MLA Airstrip	2000	West	2	Observation	Caribou	Feeding, resting, walking	Johnny
18-Jun-24	B2Gold Nunavut	Goose Behind the key trench	2000	West	18	Observation	Muskox	Grazing	-
6-Jul-24	B2Gold Nunavut	MLA West of camp	2500	West	5	Observation	Caribou	Feeding and resting	Johnny
28-Mar-24	B2Gold Nunavut	WIR P32	-	West	1	Observation	Grey Wolf	-	Brett Graved
22-Oct-24	B2Gold Nunavut	MLA Incinerator	1000	West	1	Observation	Grey Wolf	Walking	Fernando
10-Mar-24	B2Gold Nunavut	WIR Goose Forward Camp	400	West to East	1	Observation	Wolverine	Walking but changed direction of travel	Cathy

Note: '-' denotes where no details were recorded in the datasheet.

APPENDIX J WATERBIRD AERIAL SURVEY LOCATION AND HABITAT DATA, 2024

APPENDIX J: WATERBIRD AERIAL SURVEY LOCATION AND HABITAT DATA, 2024

Site ID	Survey	Date	Survey Unit	Temp (°C)	Cloud Cover (%)	Wind (Knots)	Lighting	Start Time	End Time	Comments
AM01	Spring Staging	15-May-24	MLA Treatment	-	100	8	flat	10:24	12:01	Mostly iced over. Some small wet melt spots.
AM02	Spring Staging	15-May-24	MLA Control	-	100	8	flat	12:05/13:16	12:26/14:13	Fuel pause, hence multiple start/stop times. Mostly iced over. Bigger lakes frozen with small melt spots.
AM03	Spring Staging	15-May-24	Goose Treatment	-	100	8	flat with bright pockets	14:43/16:53	15:40/16:18	Fuel pause, hence multiple start/stop times. More snow cover than MLA. Most water bodies still frozen. Some small areas of standing water on ice or little melt pockets. Also, less overall water bodies than MLA.
AM04	Spring Staging	16-May-24	Goose Control	-	75	8	variable, bright	8:22	9:31	Mostly iced over. Much more snow cover than goose impact, very limited melt spots. First small waterbodies with small water melt on T27.
AM2_01	Spring Staging	20-May-24	MLA Treatment	-	25	4	bright	8:55	10:20	The higher elevation to the west is still iced over. Lower elevation to the east starting to break up more, with pockets of water open.
AM2_02	Spring Staging	20-May-24	MLA Control	-	30	4	bright	13:18	14:29	Drier and rockier than impact plot (less suitable vegetated wet habitat for waterbirds). Large waterbodies iced over; smalls are open/partial.
AM2_03	Spring Staging	21-May-24	Goose Treatment	-	45	3	variable	15:16	16:27	Pretty rocky. More breakup/more open water than the first survey.
AM2_04	Spring Staging	22-May-24	Goose Control	-	10	3	bright	8:07	9:36	Opened up quite a bit since last survey. Lots of marshy vegetated habitat.
AM07-24_01	Summer Brood	20-Jul-24	Goose Control	20	40	8	variable	11:34	13:45	Dry rocky habit overall.
AM07-24_02	Summer Brood	17-Jul-24	MLA Control	30	40	5	hazy/bright	13:48	15:32	
AM07-24_03	Summer Brood	17-Jul-24	MLA Treatment	28	50	5	hazy/bright	10:43	12:31	Break for fuel 3/4 of the way through plot.
AM07-24_04	Summer Brood	16-Jul-24	Goose Treatment	26	70	5	hazy/bright	15:11	16:58	Quite hazy/Smokey. Not ideal for visibility but OK.
AM01_0924	Fall Staging	8-Sep-24	MLA Treatment	10	90	3	flat	9:27	11:24	
AM02_0924	Fall Staging	8-Sep-24	MLA Control	10	90	3	flat, misting	12:47	14:23	Lower visibility due to mist on windscreen on and off for all transects. Especially in western and southern higher elevation portion.
AM03_0924	Fall Staging	9-Sep-24	Goose Treatment	5	90	3	flat	8:22	10:02	Very flat lighting.
AM04_0924	Fall Staging	5-Sep-24	Goose Control	5	80	3	variable	13:37	15:26	

Note: '-' denotes where no details were recorded in the datasheet.

APPENDIX K WATERBIRD AERIAL SURVEY OBSERVATIONS, 2024

APPENDIX K: WATERBIRD AERIAL SURVEY OBSERVATIONS, 2024

Site ID	Survey	Survey Unit	Transect	Group	Species	# Drakes	# Hens	# Juveniles	# Unknown	# Total	Habitat ¹	Breeding Behaviour ²
AM01	Spring Staging	MLA Treatment	T03	1	Snow goose	0	0	0	200	200	Small Pond	-
AM01	Spring Staging	MLA Treatment	T03	1	Canada goose	0	0	0	400	400	Small Pond	-
AM01	Spring Staging	MLA Treatment	T03	1	Greater white-fronted goose	0	0	0	50	50	Small Pond	-
AM01	Spring Staging	MLA Treatment	T03	2	Canada goose	0	0	0	200	200	Small Pond	-
AM01	Spring Staging	MLA Treatment	T03	1	Northern pintail	1	1	0	0	2	Small Pond	Pair
AM01	Spring Staging	MLA Treatment	T03	-	Canada goose	0	0	0	2	2	Medium Pond	-
AM01	Spring Staging	MLA Treatment	T04	-	Herring gull	0	0	0	1	1	-	-
AM01	Spring Staging	MLA Treatment	T08	-	Greater white-fronted goose	0	0	0	4	4	-	-
AM03	Spring Staging	Goose Treatment	T20	-	Greater white-fronted goose	0	0	0	15	15	-	-
AM03	Spring Staging	Goose Treatment	T21	-	Greater white-fronted goose	0	0	0	25	25	-	-
AM03	Spring Staging	Goose Treatment	T21	-	Greater white-fronted goose	0	0	0	7	7	-	-
AM03	Spring Staging	Goose Treatment	T21	1	Snow goose	0	0	0	50	50	-	-
AM03	Spring Staging	Goose Treatment	T21	1	Greater white-fronted goose	0	0	0	150	150	-	-
AM04	Spring Staging	Goose Control	T31	-	Greater white-fronted goose	0	0	0	6	6	Small Marsh	-
AM04	Spring Staging	Goose Control	T32	-	Snow goose	0	0	0	35	35	-	-
AM04	Spring Staging	Goose Control	T32	-	Herring gull	0	0	0	1	1	-	-
AM2_01	Spring Staging	MLA Treatment	T01	-	Greater white-fronted goose	0	0	0	30	30	-	-
AM2_01	Spring Staging	MLA Treatment	T03	1	Tundra swan	0	0	0	2	2	Medium Pond	-
AM2_01	Spring Staging	MLA Treatment	T03	2	Northern pintail	2	10	0	0	12	Medium Pond	-
AM2_01	Spring Staging	MLA Treatment	T03	3	Greater white-fronted goose	0	0	0	35	35	Medium Pond	-
AM2_01	Spring Staging	MLA Treatment	T03	4	Greater white-fronted goose	0	0	0	6	6	Medium Pond	-
AM2_01	Spring Staging	MLA Treatment	T03	4	Canada goose	0	0	0	2	2	Medium Pond	-
AM2_01	Spring Staging	MLA Treatment	T04	1	Canada goose	0	0	0	50	50	Medium Pond	-
AM2_01	Spring Staging	MLA Treatment	T04	1	Greater white-fronted goose	0	0	0	100	100	Medium Pond	-
AM2_01	Spring Staging	MLA Treatment	T04	1	Northern pintail	10	30	0	0	40	Medium Pond	-
AM2_01	Spring Staging	MLA Treatment	T04	2	Tundra swan	0	0	0	2	2	Medium Pond	-
AM2_01	Spring Staging	MLA Treatment	T04	3	Greater white-fronted goose	0	0	0	170	170	Medium Pond	-
AM2_01	Spring Staging	MLA Treatment	T04	3	Canada goose	0	0	0	110	110	Medium Pond	-
AM2_01	Spring Staging	MLA Treatment	T04	3	Northern pintail	6	6	0	0	12	Medium Pond	-
AM2_01	Spring Staging	MLA Treatment	T04	3	Snow goose	0	0	0	2	2	Medium Pond	-
AM2_01	Spring Staging	MLA Treatment	T04	1	Snow goose	0	0	0	180	180	-	-
AM2_01	Spring Staging	MLA Treatment	T04	2	Snow goose	0	0	0	50	50	-	-
AM2_01	Spring Staging	MLA Treatment	T04	2	Canada goose	0	0	0	300	300	-	-
AM2_01	Spring Staging	MLA Treatment	T04	2	Northern pintail	12	12	0	0	24	-	-
AM2_01	Spring Staging	MLA Treatment	T04	2	Greater white-fronted goose	0	0	0	50	50	-	-
AM2_01	Spring Staging	MLA Treatment	T04	2	Unidentified duck	1	2	0	0	3	-	-
AM2_01	Spring Staging	MLA Treatment	T04	-	Canada goose	0	0	0	1	1	-	-
AM2_01	Spring Staging	MLA Treatment	T05	-	Canada goose	0	0	0	3	3	-	-
AM2_01	Spring Staging	MLA Treatment	T07	-	Tundra swan	0	0	0	2	2	-	-
AM2_02	Spring Staging	MLA Control	T12	-	Snow goose	0	0	0	3	3	-	-
AM2_02	Spring Staging	MLA Control	T12	-	Northern pintail	3	1	0	0	4	-	-
AM2_02	Spring Staging	MLA Control	T13	-	Greater white-fronted goose	0	0	0	2	2	Small Pond	-
AM2_02	Spring Staging	MLA Control	T15	-	Northern pintail	1	1	0	0	2	Small Pond	-

APPENDIX K: WATERBIRD AERIAL SURVEY OBSERVATIONS, 2024

Site ID	Survey	Survey Unit	Transect	Group	Species	# Drakes	# Hens	# Juveniles	# Unknown	# Total	Habitat ¹	Breeding Behaviour ²
AM2_03	Spring Staging	Goose Treatment	T17	-	Greater white-fronted goose	0	0	0	2	2	-	-
AM2_03	Spring Staging	Goose Treatment	T18	-	Canada goose	0	0	0	2	2	-	-
AM2_03	Spring Staging	Goose Treatment	T18	-	Northern pintail	2	2	0	0	4	-	-
AM2_03	Spring Staging	Goose Treatment	T22	-	Unidentified goose	0	0	0	4	4	-	-
AM2_03	Spring Staging	Goose Treatment	T22	-	Greater white-fronted goose	0	0	0	2	2	-	-
AM2_03	Spring Staging	Goose Treatment	T23	-	Herring gull	0	0	0	1	1	-	-
AM2_03	Spring Staging	Goose Treatment	T23	-	Greater white-fronted goose	0	0	0	13	13	-	-
AM2_03	Spring Staging	Goose Treatment	T23	-	Northern pintail	1	1	0	0	2	-	-
AM2_03	Spring Staging	Goose Treatment	T24	-	Herring gull	0	0	0	1	1	-	-
AM2_03	Spring Staging	Goose Treatment	T21	-	Snow goose	0	0	0	2	2	-	-
AM2_03	Spring Staging	Goose Treatment	T21	1	Snow goose	0	0	0	60	60	Small Pond	-
AM2_03	Spring Staging	Goose Treatment	T21	1	Greater white-fronted goose	0	0	0	20	20	Small Pond	-
AM2_03	Spring Staging	Goose Treatment	T21	1	Snow goose	0	0	0	35	35	Small Pond	-
AM2_03	Spring Staging	Goose Treatment	T21	1	Greater white-fronted goose	0	0	0	12	12	Small Pond	-
AM2_03	Spring Staging	Goose Treatment	T21	-	Greater white-fronted goose	0	0	0	4	4	-	-
AM2_03	Spring Staging	Goose Treatment	T21	-	Northern pintail	1	1	0	0	2	Small Pond	-
AM2_04	Spring Staging	Goose Control	T25	1	Snow goose	0	0	0	2	2	-	-
AM2_04	Spring Staging	Goose Control	T25	1	Greater white-fronted goose	0	0	0	40	40	-	-
AM2_04	Spring Staging	Goose Control	T25	1	Snow goose	0	0	0	1	1	-	-
AM2_04	Spring Staging	Goose Control	T25	1	Greater white-fronted goose	0	0	0	12	12	-	-
AM2_04	Spring Staging	Goose Control	T25	-	Greater white-fronted goose	0	0	0	2	2	-	-
AM2_04	Spring Staging	Goose Control	T26	1	Greater white-fronted goose	0	0	0	2	2	-	-
AM2_04	Spring Staging	Goose Control	T26	2	Greater white-fronted goose	0	0	0	7	7	-	-
AM2_04	Spring Staging	Goose Control	T26	-	Unidentified goose	0	0	0	4	4	-	-
AM2_04	Spring Staging	Goose Control	T28	1	Sandhill crane	0	0	0	2	2	-	-
AM2_04	Spring Staging	Goose Control	T28	1	Herring gull	0	0	0	1	1	-	-
AM2_04	Spring Staging	Goose Control	T28	-	Unidentified duck	0	0	0	2	2	-	-
AM2_04	Spring Staging	Goose Control	T29	1	Northern pintail	3	2	0	0	5	Small Pond	-
AM2_04	Spring Staging	Goose Control	T29	1	Northern pintail	1	1	0	0	2	Small Pond	-
AM2_04	Spring Staging	Goose Control	T29	-	Snow goose	0	0	0	15	15	-	-
AM2_04	Spring Staging	Goose Control	T30	-	Northern pintail	1	0	0	0	1	Small Pond	-
AM2_04	Spring Staging	Goose Control	T30	1	Green-winged teal	6	2	0	0	8	Small Pond	-
AM2_04	Spring Staging	Goose Control	T30	1	northern shoveler	1	1	0	0	2	Small Pond	-
AM2_04	Spring Staging	Goose Control	T30	1	Northern pintail	5	4	0	0	9	Small Pond	-
AM2_04	Spring Staging	Goose Control	T30	-	Canada goose	0	0	0	2	2	-	-
AM2_04	Spring Staging	Goose Control	T30	-	Green-winged teal	4	4	0	0	8	-	-
AM2_04	Spring Staging	Goose Control	T30	-	Greater white-fronted goose	0	0	0	2	2	-	-
AM2_04	Spring Staging	Goose Control	T30	-	Snow goose	0	0	0	15	15	-	-
AM2_04	Spring Staging	Goose Control	T30	-	Greater white-fronted goose	0	0	0	15	15	-	-
AM2_04	Spring Staging	Goose Control	T30	-	Greater white-fronted goose	0	0	0	2	2	-	-
AM2_04	Spring Staging	Goose Control	T30	-	Tundra swan	0	0	0	1	1	-	-
AM2_04	Spring Staging	Goose Control	T30	-	Northern pintail	2	2	0	0	4	-	-
AM2_04	Spring Staging	Goose Control	T30	-	Herring gull	0	0	0	1	1	-	-

APPENDIX K: WATERBIRD AERIAL SURVEY OBSERVATIONS, 2024

Site ID	Survey	Survey Unit	Transect	Group	Species	# Drakes	# Hens	# Juveniles	# Unknown	# Total	Habitat ¹	Breeding Behaviour ²
AM2_04	Spring Staging	Goose Control	T31	-	Snow goose	0	0	0	10	10	-	-
AM2_04	Spring Staging	Goose Control	T31	-	Northern pintail	1	1	0	0	2	-	-
AM2_04	Spring Staging	Goose Control	T31	1	Snow goose	0	0	0	2	2	-	-
AM2_04	Spring Staging	Goose Control	T31	1	Canada goose	0	0	0	12	12	-	-
AM2_04	Spring Staging	Goose Control	T31	1	Greater white-fronted goose	0	0	0	2	2	-	-
AM2_04	Spring Staging	Goose Control	T31	2	Greater white-fronted goose	0	0	0	2	2	-	-
AM2_04	Spring Staging	Goose Control	T31	1	Northern pintail	3	2	0	0	5	-	-
AM2_04	Spring Staging	Goose Control	T31	-	Greater white-fronted goose	0	0	0	2	2	-	-
AM2_04	Spring Staging	Goose Control	T31	2	Northern pintail	1	1	0	0	2	-	-
AM2_04	Spring Staging	Goose Control	T31	-	Canada goose	0	0	0	2	2	-	-
AM2_04	Spring Staging	Goose Control	T31	1	Greater white-fronted goose	0	0	0	5	5	-	-
AM2_04	Spring Staging	Goose Control	T31	2	Greater white-fronted goose	0	0	0	4	4	-	-
AM2_04	Spring Staging	Goose Control	T31	1	Green-winged teal	3	2	0	0	5	-	-
AM2_04	Spring Staging	Goose Control	T31	1	Northern pintail	1	1	0	0	2	-	-
AM07-24_01	Summer Brood	Goose Control	T25	1	Canada goose	0	0	0	47	47	Lake	-
AM07-24_01	Summer Brood	Goose Control	T25	1	Herring gull	0	0	0	2	2	Lake	Pair
AM07-24_01	Summer Brood	Goose Control	T25	1	glaucous gull	0	0	0	1	1	Lake	-
AM07-24_01	Summer Brood	Goose Control	T25	1	Herring gull	0	0	0	1	1	Lake	-
AM07-24_01	Summer Brood	Goose Control	T25	1	Canada goose	0	0	0	40	40	Lake	-
AM07-24_01	Summer Brood	Goose Control	T26	1	Canada goose	0	0	0	55	55	Lake	-
AM07-24_01	Summer Brood	Goose Control	T26	2	Long-tailed duck	0	1	7	0	8	Lake	-
AM07-24_01	Summer Brood	Goose Control	T26	1	Canada goose	0	0	0	10	10	Lake	-
AM07-24_01	Summer Brood	Goose Control	T26	2	Herring gull	0	0	0	2	2	Lake	Pair
AM07-24_01	Summer Brood	Goose Control	T26	3	Arctic tern	0	0	0	7	7	Lake	-
AM07-24_01	Summer Brood	Goose Control	T26	1	Canada goose	0	0	0	9	9	Lake	-
AM07-24_01	Summer Brood	Goose Control	T26	1	Canada goose	0	0	0	17	17	Lake	-
AM07-24_01	Summer Brood	Goose Control	T26	3	Canada goose	0	0	0	35	35	Lake	-
AM07-24_01	Summer Brood	Goose Control	T26	1	Canada goose	0	0	0	65	65	Lake	-
AM07-24_01	Summer Brood	Goose Control	T26	1	Canada goose	0	0	0	40	40	Lake	-
AM07-24_01	Summer Brood	Goose Control	T26	1	Canada goose	0	0	0	30	30	Pond	-
AM07-24_01	Summer Brood	Goose Control	T26	1	Canada goose	0	0	0	34	34	Pond	-
AM07-24_01	Summer Brood	Goose Control	T26	2	Long-tailed duck	0	0	0	7	7	Pond	-
AM07-24_01	Summer Brood	Goose Control	T26	3	Greater scaup	4	0	0	0	4	Pond	-
AM07-24_01	Summer Brood	Goose Control	T27	1	Canada goose	0	0	0	4	4	Lake	-
AM07-24_01	Summer Brood	Goose Control	T27	1	Herring gull	0	0	0	1	1	Lake	-
AM07-24_01	Summer Brood	Goose Control	T27	2	Arctic tern	0	0	0	2	2	Lake	Pair
AM07-24_01	Summer Brood	Goose Control	T27	1	Canada goose	0	0	0	25	25	Pond	-
AM07-24_01	Summer Brood	Goose Control	T27	1	Canada goose	0	0	0	13	13	Lake	-
AM07-24_01	Summer Brood	Goose Control	T27	2	Canada goose	0	0	0	40	40	Lake	-
AM07-24_01	Summer Brood	Goose Control	T27	1	Greater white-fronted goose	0	0	0	2	2	Lake	-
AM07-24_01	Summer Brood	Goose Control	T28	1	Canada goose	0	0	0	16	16	Lake	-
AM07-24_01	Summer Brood	Goose Control	T28	2	Canada goose	0	0	0	75	75	Lake	-
AM07-24_01	Summer Brood	Goose Control	T28	1	Canada goose	0	0	0	27	27	Lake	-

APPENDIX K: WATERBIRD AERIAL SURVEY OBSERVATIONS, 2024

Site ID	Survey	Survey Unit	Transect	Group	Species	# Drakes	# Hens	# Juveniles	# Unknown	# Total	Habitat ¹	Breeding Behaviour ²
AM07-24_01	Summer Brood	Goose Control	T28	1	Canada goose	0	0	0	21	21	Lake	-
AM07-24_01	Summer Brood	Goose Control	T28	2	Herring gull	0	0	0	2	2	Lake	Pair
AM07-24_01	Summer Brood	Goose Control	T28	1	Arctic tern	0	0	0	10	10	Lake	-
AM07-24_01	Summer Brood	Goose Control	T29	1	Canada goose	0	0	0	20	20	Lake	-
AM07-24_01	Summer Brood	Goose Control	T29	2	Greater white-fronted goose	0	0	0	2	2	Lake	-
AM07-24_01	Summer Brood	Goose Control	T30	1	Canada goose	0	0	0	16	16	Lake	-
AM07-24_01	Summer Brood	Goose Control	T30	1	Greater white-fronted goose	0	0	0	20	20	Lake	-
AM07-24_01	Summer Brood	Goose Control	T30	2	Sandhill crane	0	0	0	2	2	Lake	Pair
AM07-24_01	Summer Brood	Goose Control	T30	1	Canada goose	0	0	0	2	2	Lake	Pair
AM07-24_01	Summer Brood	Goose Control	T30	1	Canada goose	0	0	0	17	17	Lake	-
AM07-24_01	Summer Brood	Goose Control	T30	1	Canada goose	0	0	0	39	39	Lake	-
AM07-24_01	Summer Brood	Goose Control	T30	1	Canada goose	0	0	0	23	23	Lake	-
AM07-24_01	Summer Brood	Goose Control	T31	1	Long-tailed duck	1	0	0	0	1	Pond	-
AM07-24_01	Summer Brood	Goose Control	T31	2	Long-tailed duck	0	1	7	0	8	Pond	-
AM07-24_01	Summer Brood	Goose Control	T31	3	Long-tailed duck	0	0	0	5	5	Pond	-
AM07-24_01	Summer Brood	Goose Control	T31	4	Canada goose	0	0	0	36	36	Pond	-
AM07-24_01	Summer Brood	Goose Control	T32	1	Arctic tern	0	0	0	2	2	Pond	Pair
AM07-24_02	Summer Brood	MLA Control	T09	1	Tundra swan	0	0	0	2	2	Pond	Pair
AM07-24_02	Summer Brood	MLA Control	T09	1	Green-winged teal	0	1	3	0	4	Lake	-
AM07-24_02	Summer Brood	MLA Control	T11	1	Long-tailed duck	0	1	7	0	8	Pond	-
AM07-24_02	Summer Brood	MLA Control	T11	1	Common loon	0	0	0	1	1	Lake	-
AM07-24_02	Summer Brood	MLA Control	T11	1	Yellow-billed loon	0	0	0	2	2	Lake	Pair
AM07-24_02	Summer Brood	MLA Control	T13	1	Tundra swan	0	0	0	2	2	Pond	Pair
AM07-24_02	Summer Brood	MLA Control	T14	1	Long-tailed duck	1	0	0	0	1	Pond	-
AM07-24_02	Summer Brood	MLA Control	T15	1	Long-tailed duck	0	1	4	1	6	Lake	-
AM07-24_02	Summer Brood	MLA Control	T16	1	Greater scaup	1	3	0	0	4	Pond	-
AM07-24_03	Summer Brood	MLA Treatment	T01	1	Canada goose	0	0	0	30	30	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T01	1	Herring gull	0	0	0	2	2	Lake	Pair
AM07-24_03	Summer Brood	MLA Treatment	T01	1	Long-tailed duck	1	1	0	0	2	Pond	-
AM07-24_03	Summer Brood	MLA Treatment	T02	1	Red-breasted merganser	0	1	0	0	1	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T02	1	Greater scaup	4	6	0	0	10	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T02	1	Greater scaup	1	4	0	0	5	Pond	-
AM07-24_03	Summer Brood	MLA Treatment	T02	1	Tundra swan	0	0	0	2	2	Lake	Pair
AM07-24_03	Summer Brood	MLA Treatment	T02	1	Green-winged teal	8	0	0	0	8	Marsh	-
AM07-24_03	Summer Brood	MLA Treatment	T02	1	Tundra swan	0	0	0	2	2	Lake	Pair
AM07-24_03	Summer Brood	MLA Treatment	T03	1	Long-tailed duck	0	1	5	0	6	Pond	-
AM07-24_03	Summer Brood	MLA Treatment	T03	1	Red-breasted merganser	0	4	0	0	4	Pond	-
AM07-24_03	Summer Brood	MLA Treatment	T03	1	Long-tailed duck	0	0	0	3	3	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T03	2	pacific loon	0	0	0	2	2	Lake	Pair
AM07-24_03	Summer Brood	MLA Treatment	T03	1	Long-tailed duck	0	0	0	1	1	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T03	1	Long-tailed duck	0	1	0	1	2	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T04	1	Northern pintail	0	1	5	0	6	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T04	1	Canada goose	0	0	3	2	5	Lake	Pair

APPENDIX K: WATERBIRD AERIAL SURVEY OBSERVATIONS, 2024

Site ID	Survey	Survey Unit	Transect	Group	Species	# Drakes	# Hens	# Juveniles	# Unknown	# Total	Habitat ¹	Breeding Behaviour ²
AM07-24_03	Summer Brood	MLA Treatment	T05	1	Canada goose	0	0	0	60	60	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T05	2	Greater scaup	22	15	0	0	37	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T05	1	Red-breasted merganser	0	1	0	0	1	Pond	-
AM07-24_03	Summer Brood	MLA Treatment	T05	1	Tundra swan	0	0	0	2	2	Lake	Pair
AM07-24_03	Summer Brood	MLA Treatment	T05	2	Greater scaup	6	1	0	0	7	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T05	1	Common merganser	0	3	1	0	4	Lake	On island
AM07-24_03	Summer Brood	MLA Treatment	T05	1	Red-breasted merganser	0	1	0	0	1	Lake	Flying
AM07-24_03	Summer Brood	MLA Treatment	T05	1	Red-breasted merganser	1	0	0	0	1	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T05	1	Tundra swan	0	0	2	2	4	Lake	Pair
AM07-24_03	Summer Brood	MLA Treatment	T05	1	Long-tailed duck	3	0	0	0	3	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T05	1	Greater scaup	0	0	2	1	3	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T06	1	Greater scaup	0	0	7	1	8	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T06	1	Tundra swan	0	0	0	2	2	Lake	Pair
AM07-24_03	Summer Brood	MLA Treatment	T06	1	Greater scaup	5	4	0	0	9	Pond	-
AM07-24_03	Summer Brood	MLA Treatment	T06	2	Long-tailed duck	0	0	0	3	3	Pond	-
AM07-24_03	Summer Brood	MLA Treatment	T06	1	Northern pintail	0	1	3	0	4	Pond	-
AM07-24_03	Summer Brood	MLA Treatment	T06	1	Tundra swan	0	0	3	2	5	Lake	Pair
AM07-24_03	Summer Brood	MLA Treatment	T06	1	Red-breasted merganser	5	1	0	0	6	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T07	1	Surf scoter	30	0	0	0	30	Bathurst Inlet	-
AM07-24_03	Summer Brood	MLA Treatment	T07	1	Greater scaup	100	100	0	0	200	Bathurst Inlet	-
AM07-24_03	Summer Brood	MLA Treatment	T07	2	Cackling goose	0	0	0	45	45	Bathurst Inlet	-
AM07-24_03	Summer Brood	MLA Treatment	T07	1	Northern pintail	0	1	3	0	4	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T07	1	Greater scaup	1	2	0	0	3	Pond	-
AM07-24_03	Summer Brood	MLA Treatment	T08	1	Red-breasted merganser	0	1	0	0	1	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T08	1	Tundra swan	0	0	0	5	5	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T08	1	Common merganser	1	12	0	0	13	Lake	-
AM07-24_03	Summer Brood	MLA Treatment	T08	1	Canada goose	0	0	2	2	4	Creek	-
AM07-24_03	Summer Brood	MLA Treatment	T08	1	Long-tailed duck	0	1	0	0	1	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T17	1	Arctic tern	0	0	0	16	16	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T17	2	Herring gull	0	0	0	1	1	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T17	3	Herring gull	0	0	0	1	1	Lake	Nest Found
AM07-24_04	Summer Brood	Goose Treatment	T18	1	Common merganser	2	2	0	0	4	Lake	Pair
AM07-24_04	Summer Brood	Goose Treatment	T19	1	Long-tailed duck	0	1	0	0	1	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T20	1	Canada goose	0	0	0	16	16	Pond	-
AM07-24_04	Summer Brood	Goose Treatment	T20	1	Herring gull	0	0	0	2	2	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T21	1	Herring gull	0	0	0	4	4	Lake	Pair
AM07-24_04	Summer Brood	Goose Treatment	T21	2	Northern pintail	1	0	0	0	1	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T22	1	Greater scaup	0	2	6	0	8	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T22	2	Greater scaup	3	0	0	0	3	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T22	3	Northern pintail	0	8	4	0	12	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T22	4	Canada goose	0	0	0	9	9	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T22	5	Northern pintail	0	6	0	0	6	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T22	6	Long-tailed duck	0	1	3	0	4	Lake	-

APPENDIX K: WATERBIRD AERIAL SURVEY OBSERVATIONS, 2024

Site ID	Survey	Survey Unit	Transect	Group	Species	# Drakes	# Hens	# Juveniles	# Unknown	# Total	Habitat ¹	Breeding Behaviour ²
AM07-24_04	Summer Brood	Goose Treatment	T22	1	Canada goose	0	0	0	45	45	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T22	1	Canada goose	0	0	0	25	25	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T24	1	Common merganser	4	3	0	0	7	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T24	1	Canada goose	0	0	0	6	6	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T24	1	Cackling goose	0	0	0	1	1	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T24	2	Canada goose	0	0	0	8	8	Lake	-
AM07-24_04	Summer Brood	Goose Treatment	T24	1	Sandhill crane	0	0	1	2	3	Marsh	Pair
AM07-24_04	Summer Brood	Goose Treatment	T24	1	Canada goose	0	0	0	25	25	Lake	-
AM01_0924	Fall Staging	MLA Treatment	T01	1	Canada goose	0	0	0	80	80	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T01	2	Greater white-fronted goose	0	0	0	5	5	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T01	3	Herring gull	0	0	0	6	6	Island on Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T01	1	Greater scaup	30	50	0	25	105	Large Pond	-
AM01_0924	Fall Staging	MLA Treatment	T01	1	Northern pintail	0	0	0	2	2	Large Pond	-
AM01_0924	Fall Staging	MLA Treatment	T01	1	Northern pintail	0	0	0	3	3	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T01	1	Canada goose	0	0	0	17	17	Small Pond	-
AM01_0924	Fall Staging	MLA Treatment	T01	1	Long-tailed duck	0	7	0	0	7	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T01	1	Long-tailed duck	0	6	0	0	6	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T01	2	Red-breasted merganser	0	0	0	7	7	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	1	Greater scaup	1	1	0	0	2	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	2	Long-tailed duck	0	0	0	1	1	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	1	Long-tailed duck	0	0	0	2	2	Small Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	1	Tundra swan	0	0	0	2	2	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T02	1	Green-winged teal	0	0	0	2	2	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T02	1	Green-winged teal	0	0	0	11	11	Small Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	1	Northern pintail	0	0	0	3	3	Small Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	2	Northern pintail	0	0	0	40	40	Small Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	2	Green-winged teal	0	0	0	2	2	Small Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	1	Pacific loon	0	0	0	1	1	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	2	Tundra swan	0	0	0	2	2	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	3	Greater scaup	0	0	0	1	1	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	2	Greater scaup	0	2	0	8	10	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	2	Northern pintail	0	0	0	1	1	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	2	Long-tailed duck	0	0	0	1	1	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T02	4	Long-tailed duck	0	1	0	0	1	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T03	1	Red-breasted merganser	0	0	0	12	12	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T03	2	Red-breasted merganser	4	0	0	0	4	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T03	1	Red-breasted merganser	2	0	0	0	2	Large Pond	-
AM01_0924	Fall Staging	MLA Treatment	T04	1	Greater scaup	0	0	0	13	13	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T04	1	Tundra swan	0	0	0	2	2	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T04	2	Canada goose	0	0	0	8	8	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T04	1	Pacific loon	0	0	0	2	2	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T04	1	Greater scaup	0	0	0	3	3	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T04	2	Green-winged teal	0	0	0	17	17	Medium Pond	-

APPENDIX K: WATERBIRD AERIAL SURVEY OBSERVATIONS, 2024

Site ID	Survey	Survey Unit	Transect	Group	Species	# Drakes	# Hens	# Juveniles	# Unknown	# Total	Habitat ¹	Breeding Behaviour ²
AM01_0924	Fall Staging	MLA Treatment	T04	2	Northern pintail	0	0	0	50	50	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T04	3	Pacific loon	0	0	0	2	2	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T05	1	Glaucous gull	0	0	0	2	2	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T05	2	Greater scaup	0	0	0	2	2	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T05	3	Red-breasted merganser	0	0	0	3	3	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T05	4	Greater scaup	0	0	0	4	4	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T05	1	Greater scaup	0	0	0	31	31	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T05	2	Red-breasted merganser	0	0	0	12	12	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T05	3	Northern pintail	0	0	0	25	25	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T05	4	Tundra swan	0	0	0	2	2	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T05	5	Red-breasted merganser	0	0	0	15	15	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T05	6	Greater scaup	0	0	0	35	35	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T05	7	Greater scaup	0	0	0	23	23	Medium Pond	-
AM01_0924	Fall Staging	MLA Treatment	T06	1	Lesser scaup	0	0	0	1	1	Small Pond	-
AM01_0924	Fall Staging	MLA Treatment	T06	1	Long-tailed duck	0	1	0	0	1	Small Pond	-
AM01_0924	Fall Staging	MLA Treatment	T06	1	Unidentified scaup	0	0	0	1	1	Small Pond	-
AM01_0924	Fall Staging	MLA Treatment	T06	1	Greater scaup	0	0	0	2	2	Small Pond	-
AM01_0924	Fall Staging	MLA Treatment	T06	1	Red-breasted merganser	0	0	0	8	8	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T07	1	Canada goose	0	0	0	70	70	Tundra	-
AM01_0924	Fall Staging	MLA Treatment	T07	1	Greater scaup	0	0	0	330	330	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T07	1	Red-breasted merganser	0	0	0	4	4	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T07	1	Long-tailed duck	0	0	0	1	1	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T07	1	Red-breasted merganser	5	0	0	0	5	Bathurst Inlet	-
AM01_0924	Fall Staging	MLA Treatment	T07	1	Tundra swan	0	0	0	4	4	-	-
AM01_0924	Fall Staging	MLA Treatment	T07	1	Red-breasted merganser	0	0	0	35	35	Small Pond	-
AM01_0924	Fall Staging	MLA Treatment	T07	2	Greater scaup	0	0	0	6	6	Small Pond	-
AM01_0924	Fall Staging	MLA Treatment	T07	1	Greater scaup	0	0	0	1	1	Small Pond	-
AM01_0924	Fall Staging	MLA Treatment	T07	1	Tundra swan	0	0	0	1	1	River	-
AM01_0924	Fall Staging	MLA Treatment	T08	1	Red-breasted merganser	0	0	0	40	40	Lake	-
AM01_0924	Fall Staging	MLA Treatment	T08	1	Herring gull	0	0	0	1	1	Lake	-
AM01_0924	Fall Staging	MLA Treatment	T08	1	White-winged scoter	0	0	0	3	3	Medium Pond	-
AM02_0924	Fall Staging	MLA Control	T09	1	Greater white-fronted goose	0	0	0	6	6	Tundra	-
AM02_0924	Fall Staging	MLA Control	T09	1	Red-breasted merganser	0	0	0	2	2	Small Pond	-
AM02_0924	Fall Staging	MLA Control	T09	1	Canada goose	0	0	0	6	6	Tundra	-
AM02_0924	Fall Staging	MLA Control	T10	1	Canada goose	0	0	0	50	50	Tundra	-
AM02_0924	Fall Staging	MLA Control	T10	1	Greater white-fronted goose	0	0	0	100	100	Tundra	-
AM02_0924	Fall Staging	MLA Control	T10	1	Greater white-fronted goose	0	0	0	80	80	Tundra	-
AM02_0924	Fall Staging	MLA Control	T11	1	Greater scaup	0	0	0	5	5	Small Pond	-
AM02_0924	Fall Staging	MLA Control	T11	1	Long-tailed duck	0	1	0	0	1	Small Pond	-
AM02_0924	Fall Staging	MLA Control	T12	1	Long-tailed duck	0	1	0	0	1	Small Pond	-
AM02_0924	Fall Staging	MLA Control	T12	1	Unidentified goose	0	0	0	2	2	Small Pond	-
AM02_0924	Fall Staging	MLA Control	T12	1	Canada goose	0	0	0	14	14	Tundra	-
AM02_0924	Fall Staging	MLA Control	T12	1	Canada goose	0	0	0	8	8	Small Pond	-

APPENDIX K: WATERBIRD AERIAL SURVEY OBSERVATIONS, 2024

Site ID	Survey	Survey Unit	Transect	Group	Species	# Drakes	# Hens	# Juveniles	# Unknown	# Total	Habitat ¹	Breeding Behaviour ²
AM02_0924	Fall Staging	MLA Control	T12	2	Canada goose	0	0	0	30	30	Tundra	-
AM02_0924	Fall Staging	MLA Control	T12	1	Canada goose	0	0	0	80	80	Tundra	-
AM02_0924	Fall Staging	MLA Control	T13	1	Tundra swan	0	0	0	2	2	Medium Pond	-
AM02_0924	Fall Staging	MLA Control	T13	1	Canada goose	0	0	0	21	21	-	-
AM02_0924	Fall Staging	MLA Control	T14	1	Canada goose	0	0	0	25	25	-	-
AM02_0924	Fall Staging	MLA Control	T14	1	Greater white-fronted goose	0	0	0	3	3	-	-
AM02_0924	Fall Staging	MLA Control	T14	1	Cackling goose	0	0	0	9	9	Small Pond	-
AM02_0924	Fall Staging	MLA Control	T14	1	Canada goose	0	0	0	55	55	Small Pond	-
AM02_0924	Fall Staging	MLA Control	T14	1	Red-breasted merganser	0	0	0	7	7	Large Pond	-
AM02_0924	Fall Staging	MLA Control	T14	1	Tundra swan	0	0	0	4	4	-	-
AM02_0924	Fall Staging	MLA Control	T15	1	Red-breasted merganser	0	0	0	1	1	Medium Pond	-
AM02_0924	Fall Staging	MLA Control	T15	1	Long-tailed duck	0	2	0	0	2	Large Pond	-
AM02_0924	Fall Staging	MLA Control	T16	1	Canada goose	0	0	0	13	13	Large Pond	-
AM02_0924	Fall Staging	MLA Control	T16	1	Canada goose	0	0	0	20	20	-	-
AM02_0924	Fall Staging	MLA Control	T16	1	Canada goose	0	0	0	35	35	-	-
AM03_0924	Fall Staging	Goose Treatment	T17	1	Long-tailed duck	0	0	0	1	1	Medium Pond	-
AM03_0924	Fall Staging	Goose Treatment	T17	1	Red-breasted merganser	0	0	0	3	3	-	-
AM03_0924	Fall Staging	Goose Treatment	T18	1	Canada goose	0	0	0	9	9	Small Pond	-
AM03_0924	Fall Staging	Goose Treatment	T18	1	Unidentified loon	0	0	0	2	2	Small Pond	-
AM03_0924	Fall Staging	Goose Treatment	T18	1	Long-tailed duck	0	0	0	1	1	Small Pond	-
AM03_0924	Fall Staging	Goose Treatment	T18	1	Long-tailed duck	0	4	0	0	4	Small Pond	-
AM03_0924	Fall Staging	Goose Treatment	T19	1	Canada goose	0	0	0	11	11	-	-
AM03_0924	Fall Staging	Goose Treatment	T20	1	Herring gull	0	0	0	1	1	Medium Pond	-
AM03_0924	Fall Staging	Goose Treatment	T20	1	Long-tailed duck	0	3	0	0	3	Small Pond	-
AM03_0924	Fall Staging	Goose Treatment	T20	1	Greater scaup	0	0	0	8	8	Small Pond	-
AM03_0924	Fall Staging	Goose Treatment	T20	1	Greater scaup	0	0	0	9	9	Small Pond	-
AM03_0924	Fall Staging	Goose Treatment	T20	1	Long-tailed duck	0	0	0	3	3	Small Pond	-
AM03_0924	Fall Staging	Goose Treatment	T20	1	Pacific loon	0	0	0	1	1	Large Pond	-
AM03_0924	Fall Staging	Goose Treatment	T20	1	Yellow-billed loon	0	0	0	4	4	Large Pond	-
AM03_0924	Fall Staging	Goose Treatment	T20	1	Greater white-fronted goose	0	0	0	70	70	-	-
AM03_0924	Fall Staging	Goose Treatment	T21	1	Greater white-fronted goose	0	0	0	12	12	-	-
AM03_0924	Fall Staging	Goose Treatment	T21	1	Red-breasted merganser	0	0	0	35	35	Large Pond	-
AM03_0924	Fall Staging	Goose Treatment	T22	1	Long-tailed duck	0	0	0	7	7	Medium Pond	-
AM03_0924	Fall Staging	Goose Treatment	T22	1	Tundra swan	0	0	0	12	12	Medium Pond	-
AM03_0924	Fall Staging	Goose Treatment	T22	2	Long-tailed duck	0	0	0	7	7	Medium Pond	-
AM03_0924	Fall Staging	Goose Treatment	T22	1	Herring gull	0	0	0	1	1	Medium Pond	-
AM03_0924	Fall Staging	Goose Treatment	T22	1	Canada goose	0	0	0	5	5	-	-
AM03_0924	Fall Staging	Goose Treatment	T23	1	Tundra swan	0	0	0	2	2	River	-
AM03_0924	Fall Staging	Goose Treatment	T24	1	Greater white-fronted goose	0	0	0	10	10	-	-
AM03_0924	Fall Staging	Goose Treatment	T24	1	Greater white-fronted goose	0	0	0	5	5	-	-
AM03_0924	Fall Staging	Goose Treatment	T24	1	Long-tailed duck	0	0	0	3	3	Medium Pond	-
AM03_0924	Fall Staging	Goose Treatment	T24	1	Greater scaup	0	1	0	4	5	Medium Pond	-
AM04_0924	Fall Staging	Goose Control	T25	1	Long-tailed duck	0	2	0	0	2	Medium Pond	-

APPENDIX K: WATERBIRD AERIAL SURVEY OBSERVATIONS, 2024

Site ID	Survey	Survey Unit	Transect	Group	Species	# Drakes	# Hens	# Juveniles	# Unknown	# Total	Habitat ¹	Breeding Behaviour ²
AM04_0924	Fall Staging	Goose Control	T25	1	Red-breasted merganser	11	0	0	0	11	Large Pond	-
AM04_0924	Fall Staging	Goose Control	T25	1	Greater white-fronted goose	0	0	0	6	6	Tundra	-
AM04_0924	Fall Staging	Goose Control	T25	1	Greater white-fronted goose	0	0	0	20	20	-	-
AM04_0924	Fall Staging	Goose Control	T27	1	Red-breasted merganser	20	30	0	0	50	-	-
AM04_0924	Fall Staging	Goose Control	T27	1	Herring gull	0	0	0	1	1	Medium Pond	-
AM04_0924	Fall Staging	Goose Control	T27	1	Greater white-fronted goose	0	0	0	70	70	Tundra	-
AM04_0924	Fall Staging	Goose Control	T27	1	Red-breasted merganser	30	30	0	0	60	Medium Pond	-
AM04_0924	Fall Staging	Goose Control	T27	1	Herring gull	0	0	0	3	3	Medium Pond	-
AM04_0924	Fall Staging	Goose Control	T27	1	Greater white-fronted goose	0	0	0	10	10	-	-
AM04_0924	Fall Staging	Goose Control	T27	1	Greater white-fronted goose	0	0	0	6	6	-	-
AM04_0924	Fall Staging	Goose Control	T27	1	Tundra swan	0	0	0	4	4	Small Pond	-
AM04_0924	Fall Staging	Goose Control	T28	1	Greater white-fronted goose	0	0	0	20	20	-	-
AM04_0924	Fall Staging	Goose Control	T28	2	Greater white-fronted goose	0	0	0	20	20	-	-
AM04_0924	Fall Staging	Goose Control	T28	1	Greater white-fronted goose	0	0	0	12	12	Tundra	-
AM04_0924	Fall Staging	Goose Control	T28	3	Greater white-fronted goose	0	0	0	10	10	Medium Pond	-
AM04_0924	Fall Staging	Goose Control	T28	1	Red-breasted merganser	0	10	0	0	10	Medium Pond	-
AM04_0924	Fall Staging	Goose Control	T28	2	Herring gull	0	0	0	2	2	Medium Pond	-
AM04_0924	Fall Staging	Goose Control	T29	1	Greater white-fronted goose	0	0	0	11	11	Tundra	-
AM04_0924	Fall Staging	Goose Control	T29	1	Red-breasted merganser	0	20	0	0	20	-	-
AM04_0924	Fall Staging	Goose Control	T29	1	Greater white-fronted goose	0	0	0	12	12	-	-
AM04_0924	Fall Staging	Goose Control	T29	1	Tundra swan	0	0	0	3	3	Small Pond	-
AM04_0924	Fall Staging	Goose Control	T29	1	Greater white-fronted goose	0	0	0	7	7	-	-
AM04_0924	Fall Staging	Goose Control	T29	1	Greater white-fronted goose	0	0	0	20	20	-	-
AM04_0924	Fall Staging	Goose Control	T30	1	Greater white-fronted goose	0	0	0	65	65	-	-
AM04_0924	Fall Staging	Goose Control	T30	1	Greater white-fronted goose	0	0	0	11	11	-	-
AM04_0924	Fall Staging	Goose Control	T30	1	Greater white-fronted goose	0	0	0	15	15	-	-
AM04_0924	Fall Staging	Goose Control	T30	1	Greater white-fronted goose	0	0	0	12	12	-	-
AM04_0924	Fall Staging	Goose Control	T30	1	Sandhill crane	0	0	0	3	3	-	-
AM04_0924	Fall Staging	Goose Control	T31	1	Red-breasted merganser	0	0	0	100	100	Large Pond	-
AM04_0924	Fall Staging	Goose Control	T31	1	Tundra swan	0	0	0	3	3	Small Pond	-
AM04_0924	Fall Staging	Goose Control	T31	1	Greater white-fronted goose	0	0	0	7	7	Small Pond	-
AM04_0924	Fall Staging	Goose Control	T32	1	Greater white-fronted goose	0	0	0	40	40	-	-
AM04_0924	Fall Staging	Goose Control	T32	1	Tundra swan	0	0	0	22	22	River	-
AM04_0924	Fall Staging	Goose Control	T32	1	Northern pintail	0	0	0	25	25	River	-
AM04_0924	Fall Staging	Goose Control	T32	1	Tundra swan	0	0	0	7	7	River	-
AM04_0924	Fall Staging	Goose Control	T32	1	Snow goose	0	0	0	15	15	-	-
AM04_0924	Fall Staging	Goose Control	T32	1	Northern pintail	0	0	0	2	2	Small Pond	-
AM04_0924	Fall Staging	Goose Control	T32	1	Long-tailed duck	0	0	0	1	1	Small Pond	-

Note: '-' denotes where no details were recorded in the datasheet.

APPENDIX L WATERBIRD GROUND SURVEY LOCATION AND HABITAT DATA, 2024

APPENDIX L: WATERBIRD GROUND SURVEY LOCATION AND HABITAT DATA, 2024

Site ID	Survey	Date	Temp (°C)	Cloud (%)	Wind (Beaufort)	Light	Precipitation	Noise	Wetland Type	Wetland Size	% Riparian Shrub	% Upland Shrub	% Grasses	% Bare	% Lichen/Moss ¹	% Wetland	Time Start	Time End	Comments
Mi06	Spring Staging	20-May-24	0	45	4	Bright	Nil	Slight	Ocean	Large_>2ha	5	0	15	30	-	50	10:36	10:56	Bathurst inlet
Mi11	Spring Staging	20-May-24	0	45	4	Bright	Nil	Slight	Pond	Small_<0.5ha	5	38	2	30	-	25	11:18	11:28	-
Mi12	Spring Staging	20-May-24	0	40	4	Bright	Nil	Slight	Pond	Medium_0.5-2ha	5	38	10	2	-	45	11:53	12:13	-
Mi04	Spring Staging	20-May-24	5	30	3	Bright	Nil	None	Lake	Medium_0.5-2ha	30	5	20	0	-	45	14:52	14:12	-
Mc11	Spring Staging	21-May-24	0	45	3	Variable	Nil	None	Pond	Small_<0.5ha	1	44	10	30	-	15	10:20	9:30	-
Mc12	Spring Staging	21-May-24	0	45	2	Bright	Nil	None	Pond	Medium_0.5-2ha	5	15	15	20	-	45	10:50	11:00	-
Mc13	Spring Staging	21-May-24	0	45	4	Variable	Nil	Slight	Pond	Small_<0.5ha	1	14	15	55	-	15	11:18	11:28	-
Mc14	Spring Staging	21-May-24	0	45	4	Bright	Nil	Slight	Pond	Small_<0.5ha	5	45	30	5	-	15	11:39	10:49	-
Mc15	Spring Staging	21-May-24	0	40	5	Bright	Nil	Slight	Pond	Medium_0.5-2ha	5	30	10	25	-	30	11:58	12:08	-
Mc16	Spring Staging	21-May-24	0	40	4	Variable	Nil	Slight	Pond	Medium_0.5-2ha	5	15	10	5	-	55	12:23	12:43	-
Mi13	Spring Staging	21-May-24	0	40	2	Variable	Nil	Slight	Pond	Small_<0.5ha	0	10	40	40	-	10	13:00	13:10	-
Mi14	Spring Staging	21-May-24	8	45	3	Bright	Nil	Slight	Pond	Small_<0.5ha	30	35	10	0	-	25	13:22	13:32	-
Gc11	Spring Staging	22-May-24	5	5	1	Bright	Nil	None	Pond	Small_<0.5ha	0	15	40	10	-	35	10:25	10:45	-
Gc09	Spring Staging	22-May-24	5	5	2	Bright	Nil	None	Pond	Small_<0.5ha	10	20	20	40	-	10	11:00	11:10	-
Gc08	Spring Staging	22-May-24	5	5	2	Bright	Nil	None	Pond	Medium_0.5-2ha	5	35	40	10	-	10	11:24	11:34	-
Gc12	Spring Staging	22-May-24	5	0	2	Bright	Nil	None	Pond, River	Small_<0.5ha	5	50	30	10	-	5	11:45	11:55	-
Gc13	Spring Staging	22-May-24	5	0	1	Bright	Nil	None	Pond	Small_<0.5ha	5	35	5	40	-	15	11:59	12:09	-
Gc14	Spring Staging	22-May-24	5	0	2	Bright	Nil	Slight	Pond	Small_<0.5ha	10	40	20	15	-	15	12:10	12:20	-
Gi11	Spring Staging	22-May-24	5	0	2	Bright	Nil	None	Marsh, River	Small_<0.5ha	10	55	5	20	-	10	12:27	12:37	Marsh and river
Gi12	Spring Staging	22-May-24	5	0	2	Bright	Nil	Slight	Pond	Small_<0.5ha	3	37	10	40	-	10	13:05	13:15	-
Gi13	Spring Staging	22-May-24	5	0	2	Bright	Nil	Slight	Pond	Small_<0.5ha	5	50	5	20	-	20	13:25	13:35	-
Gi14	Spring Staging	22-May-24	5	0	3	Bright	Nil	Slight	Pond	Medium_0.5-2ha	5	50	10	30	-	5	13:45	13:55	-
Gi08	Spring Staging	22-May-24	5	0	2	Bright	Nil	Slight	Pond	Medium_0.5-2ha	5	35	15	15	-	30	14:05	14:15	-
Gi16	Spring Staging	22-May-24	10	0	2	Bright	Nil	None	Pond	Small_<0.5ha	5	50	10	25	-	10	14:45	15:05	-
Mi06	Summer Brood	18-Jul-24	25	10	5	Variable	Nil	Slight	Ocean	Large_>2ha	5	30	10	5	10	40	9:12	9:32	-
Mi12	Summer Brood	18-Jul-24	27	10	3	Variable	Nil	None	Lake	Large_>2ha	15	5	20	0	5	55	9:50	10:10	-
Mi04	Summer Brood	18-Jul-24	30	5	3	Bright	Nil	Slight	Marsh	Medium_0.5-2ha	30	10	30	0	15	15	10:25	10:45	-
Mi14	Summer Brood	18-Jul-24	32	0	4	Variable	Nil	None	Marsh, Pond	Medium_0.5-2ha	25	10	35	5	10	15	10:55	11:15	Very warm quiet day
Mi13	Summer Brood	18-Jul-24	32	0	4	Variable	Nil	None	Pond	Medium_0.5-2ha	5	30	10	5	30	20	11:25	11:45	-
Mi11	Summer Brood	18-Jul-24	32	2	6	Variable	Nil	Slight	Pond	Medium_0.5-2ha	10	25	15	15	25	10	11:55	12:15	Windy and very hot. Quiet
Mc16	Summer Brood	18-Jul-24	32	15	4	Hazy	Nil	None	Lake, Marsh	Large_>2ha	5	15	10	0	10	60	13:25	13:45	-
Mc15	Summer Brood	18-Jul-24	33	15	4	Variable	Nil	None	Lake, Pond	Medium_0.5-2ha	5	40	10	10	15	20	13:53	14:13	Very hot day. Quiet
Mc14	Summer Brood	18-Jul-24	33	15	3	Variable	Nil	None	Lake	Medium_0.5-2ha	5	25	20	10	20	20	14:16	14:36	Very warm. Quiet
Mc13	Summer Brood	18-Jul-24	32	5	4	Variable	Nil	None	Marsh, Wetland	Small_<0.5ha	0	30	15	20	25	10	14:38	14:58	Barren rocky area. Shallow rocky ponds. Very hot day, quiet
Mc11	Summer Brood	18-Jul-24	32	5	4	Hazy	Nil	None	Pond	Small_<0.5ha	5	30	15	20	25	5	14:53	15:13	Hot day very quiet
Mc12	Summer Brood	18-Jul-24	32	5	4	Hazy	Nil	None	Lake	Medium_0.5-2ha	0	25	15	5	20	35	15:12	15:32	Rocky dry area. Very hot day. Quiet
Gc09	Summer Brood	20-Jul-24	20	40	2	Variable	Nil	None	Wetland	Small_<0.5ha	10	10	40	5	20	15	12:29	12:49	-
Gc11	Summer Brood	20-Jul-24	20	40	2	Variable	Nil	None	Wetland	Medium_0.5-2ha	5	30	25	5	20	15	12:51	13:11	-
Gc08	Summer Brood	20-Jul-24	20	40	2	Variable	Nil	None	Lake, Marsh	Medium_0.5-2ha	10	25	25	10	10	20	13:15	13:35	-
Gc12	Summer Brood	20-Jul-24	22	5	2	Variable	Nil	None	Marsh, stream	Small_<0.5ha	25	30	15	10	15	5	13:38	13:58	Small stream with a bit of marsh on sides
Gc13	Summer Brood	20-Jul-24	22	30	3	Variable	Nil	None	Lake, Pond	Large_>2ha	5	15	10	10	10	50	13:58	14:18	-
Gc14	Summer Brood	20-Jul-24	20	40	3	Variable	Nil	None	River	Small_<0.5ha	5	50	20	5	15	5	14:24	14:44	-
Gi08	Summer Brood	20-Jul-24	18	70	5	Variable	Nil	Slight	Pond, Marsh, Lake	Medium_0.5-2ha	5	35	10	10	10	30	14:45	15:05	Quiet. Storm moving in
Gi11	Summer Brood	20-Jul-24	16	60	3	Variable	Rain-Light	None	River	Small_<0.5ha	10	60	15	5	5	5	15:14	15:34	-
Gi12	Summer Brood	20-Jul-24	18	35	3	Variable	Nil	None	Pond	Medium_0.5-2ha	5	55	10	5	10	15	15:38	15:58	-
Gi14	Summer Brood	21-Jul-24	22	15	1	Hazy	Nil	None	Pond	Small_<0.5ha	0	70	10	5	5	10	14:23	14:43	Very quiet. Rocky ponds
Ec01	Summer Brood	21-Jul-24	22	15	1	Hazy	Nil	Slight	Pond	Medium_0.5-2ha	0	45	15	15	10	15	14:45	15:05	-
Ec02	Summer Brood	21-Jul-24	22	20	1	Hazy	Nil	Slight	Lake, Pond	Medium_0.5-2ha	0	55	5	10	10	20	15:03	15:23	-
Ec03	Summer Brood	21-Jul-24	22	20	1	Hazy	Nil	Slight	Pond, Wetland	Medium_0.5-2ha	5	30	35	5	5	20	15:28	15:48	-
Ec04	Summer Brood	22-Jul-24	22	55	2	Hazy	Nil	Slight	Lake	Large_>2ha	0	60	5	5	10	20	8:10	8:30	-
Gi13	Summer Brood	22-Jul-24	22	60	3	Hazy	Nil	Slight	Lake, Pond	Medium_0.5-2ha	0	55	15	5	10	15	8:24	8:44	-
Gi16	Summer Brood	22-Jul-24	24	30	3	Hazy	Nil	Moderate	Lake, Marsh	Medium_0.5-2ha	5	55	15	0	10	15	14:31	14:51	-

APPENDIX L: WATERBIRD GROUND SURVEY LOCATION AND HABITAT DATA, 2024

Site ID	Survey	Date	Temp (°C)	Cloud (%)	Wind (Beaufort)	Light	Precipitation	Noise	Wetland Type	Wetland Size	% Riparian Shrub	% Upland Shrub	% Grasses	% Bare	% Lichen/Moss ¹	% Wetland	Time Start	Time End	Comments
Mc12	Fall Staging	6-Sep-24	5	90	4	Flat	Nil	Slight	Pond	Small_<0.5ha	5	30	5	20	30	10	9:10	9:20	-
Mc11	Fall Staging	6-Sep-24	5	90	4	Bright	Nil	Slight	Pond	Small_<0.5ha	0	25	30	10	30	5	9:34	9:54	-
MC13	Fall Staging	6-Sep-24	5	80	6	Flat	Nil	Slight	Pond	Medium_0.5-2ha	5	15	5	20	40	15	10:10	10:20	-
MC14	Fall Staging	6-Sep-24	5	80	4	Flat	Nil	Slight	Pond	Medium_0.5-2ha	5	40	10	5	25	15	10:28	10:46	-
MC15	Fall Staging	6-Sep-24	5	80	3	Variable	Nil	Slight	Pond	Medium_0.5-2ha	5	40	15	10	20	10	10:54	11:06	-
MC16	Fall Staging	6-Sep-24	6	80	1	Flat	Nil	Slight	Pond	Large_>2ha	5	35	15	5	20	20	11:15	11:30	Stream heard in distance
MI13	Fall Staging	6-Sep-24	6	90	3	Flat	Nil	None	Pond	Medium_0.5-2ha	5	10	50	5	20	10	11:40	11:53	-
Mi12	Fall Staging	6-Sep-24	8	90	2	Flat	Nil	None	Pond	Large_>2ha	5	25	40	5	10	15	12:56	13:13	-
MI04	Fall Staging	6-Sep-24	7	95	4	Flat	Nil	Slight	Pond	Small_<0.5ha	5	50	20	5	15	5	13:25	13:41	-
MI14	Fall Staging	6-Sep-24	8	95	3	Flat	Nil	Slight	Pond	Medium_0.5-2ha	10	30	15	10	20	15	13:50	13:00	-
MI11	Fall Staging	6-Sep-24	7	75	6	Flat	Nil	Slight	Lake, Pond	Medium_0.5-2ha	10	15	20	20	20	15	14:14	14:24	Mix of small, med, and large ponds
MI06	Fall Staging	6-Sep-24	8	80	3	Flat	Nil	Slight	Ocean	Large_>2ha	0	30	5	10	15	40	14:33	14:48	Bathurst inlet
GI14	Fall Staging	6-Sep-24	5	50	5	Bright	Nil	Slight	Pond	Small_<0.5ha	0	40	5	15	35	5	15:49	15:59	-
GI13	Fall Staging	6-Sep-24	5	50	5	Bright	Nil	Slight	Pond	Medium_0.5-2ha	5	40	15	10	20	10	16:10	16:20	Large pond nearby
GI08	Fall Staging	6-Sep-24	8	40	5	Bright	Nil	Slight	Pond	Small_<0.5ha	0	30	25	15	20	10	16:33	16:53	-
Gc11	Fall Staging	7-Sep-24	10	50	2	Variable	Nil	None	Pond	Small_<0.5ha	0	75	5	5	10	5	10:44	11:04	-
Gc09	Fall Staging	7-Sep-24	10	50	3	Flat	Nil	Slight	Pond	Small_<0.5ha	0	30	20	10	35	5	11:13	11:26	-
Gc08	Fall Staging	7-Sep-24	15	60	2	Variable	Nil	Slight	Pond	Medium_0.5-2ha	0	35	35	5	15	10	12:46	13:06	-
GC12	Fall Staging	7-Sep-24	10	60	3	Bright	Nil	None	River	Medium_0.5-2ha	5	50	10	0	30	5	13:17	13:27	-
Gc13	Fall Staging	7-Sep-24	10	70	3	Variable	Nil	None	Pond	Large_>2ha	5	30	20	10	15	20	13:42	14:02	-
Gc14	Fall Staging	7-Sep-24	10	80	3	Variable	Nil	None	Pond	Small_<0.5ha	0	35	25	10	20	10	14:14	14:24	Some small and medium ponds
GI11	Fall Staging	7-Sep-24	15	75	3	Flat	Nil	Slight	River	Medium_0.5-2ha	5	40	30	5	15	5	14:36	14:51	-
GI12	Fall Staging	7-Sep-24	10	80	3	Variable	Nil	Slight	Pond	Small_<0.5ha	0	40	15	20	20	5	15:58	15:10	-
EC02	Fall Staging	7-Sep-24	10	80	4	Flat	Nil	Slight	Pond	Small_<0.5ha	5	55	0	10	20	10	15:27	15:47	-
EC04	Fall Staging	7-Sep-24	10	80	3	Flat	Nil	None	Pond	Medium_0.5-2ha	0	45	5	15	30	5	16:19	16:39	-
GI16	Fall Staging	9-Sep-24	5	100	4	Flat	Nil	None	Pond, Wetland	Small_<0.5ha	0	40	5	20	30	5	10:09	10:21	Right next to the mine site
EC03	Fall Staging	9-Sep-24	5	100	4	Flat	Nil	None	Pond	Small_<0.5ha	0	50	5	5	30	10	10:34	10:54	-
EC01	Fall Staging	9-Sep-24	5	100	5	Flat	Nil	Slight	Pond	Small_<0.5ha	0	45	0	20	30	5	11:14	11:34	-

Note: '-' denotes where no details were recorded in the datasheet.

¹The percent lichen and moss attribute was not added until the summer brood surveys.

APPENDIX M WATERBIRD GROUND SURVEY OBSERVATIONS, 2024

APPENDIX M: WATERBIRD GROUND SURVEY OBSERVATIONS 2024

Site ID	Survey	Site Type	Species	# Male	# Female	# Unknown	# Young	Total	Primary Behaviour	Comments
Mi06	Spring Staging	MLA Treatment	Northern Pintail	16	25	0	0	41	Resting	-
Mi06	Spring Staging	MLA Treatment	Canada Goose	0	0	2	0	2	Flying/Fly-over	-
Mi11	Spring Staging	MLA Treatment	Northern Pintail	1	1	0	0	2	Resting	Paired up
Mi12	Spring Staging	MLA Treatment	Northern Pintail	40	35	0	0	75	Resting	-
Mi12	Spring Staging	MLA Treatment	Canada Goose	0	0	417	0	417	Resting	-
Mi12	Spring Staging	MLA Treatment	Greater White-fronted Goose	0	0	186	0	186	Resting	-
Mi12	Spring Staging	MLA Treatment	Redhead	2	2	0	0	4	Resting	-
Mi12	Spring Staging	MLA Treatment	Snow Goose	0	0	40	0	40	Resting	-
Mi12	Spring Staging	MLA Treatment	Tundra Swan	0	0	1	0	1	Resting	-
Mi04	Spring Staging	MLA Treatment	Northern Pintail	28	20	0	0	48	Resting	-
Mi04	Spring Staging	MLA Treatment	Tundra Swan	0	0	1	0	1	Flying/Fly-over	-
Mi04	Spring Staging	MLA Treatment	Canada Goose	0	0	123	0	123	Resting	-
Mi04	Spring Staging	MLA Treatment	Greater White-fronted Goose	0	0	284	0	284	Resting	-
Mi04	Spring Staging	MLA Treatment	Common goldeneye	2	0	0	0	2	Resting	-
Mi04	Spring Staging	MLA Treatment	Snow Goose	0	0	67	0	67	Resting	-
Mi04	Spring Staging	MLA Treatment	Snow Goose	0	25	0	0	25	Flying/Fly-over	-
Mc12	Spring Staging	MLA Control	Northern Pintail	9	5	0	0	14	Resting	-
Mc12	Spring Staging	MLA Control	Greater Scaup	2	1	0	0	3	Resting	-
Mc13	Spring Staging	MLA Control	Northern Pintail	1	1	0	0	2	Resting	-

Site ID	Survey	Site Type	Species	# Male	# Female	# Unknown	# Young	Total	Primary Behaviour	Comments
Mc13	Spring Staging	MLA Control	Greater White-fronted Goose	0	0	2	0	2	Flying/Fly-over	-
Mc14	Spring Staging	MLA Control	Northern Pintail	2	0	0	0	2	Foraging	-
Mc16	Spring Staging	MLA Control	Tundra Swan	0	0	9	0	9	Flying/Fly-over	In group
Mc16	Spring Staging	MLA Control	Greater White-fronted Goose	0	0	24	0	24	Flying/Fly-over	In group
Gc11	Spring Staging	Goose Control	Northern Pintail	10	7	0	0	17	-	-
Gc09	Spring Staging	Goose Control	Greater White-fronted Goose	0	0	2	0	2	Resting	-
Gc08	Spring Staging	Goose Control	Northern Pintail	1	1	0	0	2	Flying/Fly-over	-
Gc12	Spring Staging	Goose Control	Northern Shoveler	1	1	0	0	2	Resting	-
Gc12	Spring Staging	Goose Control	Northern Pintail	2	2	0	0	4	Resting	-
Gc12	Spring Staging	Goose Control	Greater White-fronted Goose	0	0	4	0	4	Flushed	-
Gc13	Spring Staging	Goose Control	Northern Pintail	2	2	0	0	4	Resting	-
Gc13	Spring Staging	Goose Control	Northern Shoveler	0	1	0	0	1	Resting	-
Gc13	Spring Staging	Goose Control	Green-winged Teal	1	1	0	0	2	Resting	-
Gc13	Spring Staging	Goose Control	Northern Pintail	1	1	0	0	2	Flying/Fly-over	-
Gc14	Spring Staging	Goose Control	Greater White-fronted Goose	0	0	2	0	2	Foraging	-
Gi11	Spring Staging	Goose Treatment	Tundra Swan	0	0	11	0	11	Resting	-
Gi11	Spring Staging	Goose Treatment	Greater White-fronted Goose	0	0	2	0	2	Resting	-
Gi12	Spring Staging	Goose Treatment	Northern Pintail	1	3	0	0	4	Resting	-
Gi13	Spring Staging	Goose Treatment	Green-winged Teal	4	2	0	0	6	Foraging	One Male displaying
Gi08	Spring Staging	Goose Treatment	Northern Pintail	22	18	0	1	41	Foraging	-

Site ID	Survey	Site Type	Species	# Male	# Female	# Unknown	# Young	Total	Primary Behaviour	Comments
Gi16	Spring Staging	Goose Treatment	Greater White-fronted Goose	0	0	23	0	23	Foraging	-
Gi16	Spring Staging	Goose Treatment	Snow Goose	0	0	44	0	44	Resting	-
Gi16	Spring Staging	Goose Treatment	Canada Goose	0	0	17	0	17	Resting	-
Gi16	Spring Staging	Goose Treatment	Northern Pintail	1	1	0	0	2	Foraging	-
Mi06	Summer Brood	MLA Treatment	Canada Goose	0	0	100	0	100	Resting	-
Mi06	Summer Brood	MLA Treatment	Greater White-fronted Goose	0	0	1	0	1	Resting	Long GWFG with group of cago
Mi06	Summer Brood	MLA Treatment	Greater Scaup	7	12	0	0	19	Resting	-
Mi12	Summer Brood	MLA Treatment	Tundra Swan	0	0	2	0	2	Resting	Pair
Mi12	Summer Brood	MLA Treatment	Pacific Loon	0	0	1	0	1	Foraging	-
Mi04	Summer Brood	MLA Treatment	Greater Scaup	0	1	0	8	9	Resting	-
Mi04	Summer Brood	MLA Treatment	Northern Pintail	0	7	0	0	7	-	Molting
Mi04	Summer Brood	MLA Treatment	Green-winged Teal	4	9	0	0	13	-	Molting
Mi13	Summer Brood	MLA Treatment	Long-tailed Duck	0	1	0	0	1	Resting	-
Mc16	Summer Brood	MLA Control	Tundra Swan	0	0	2	0	2	Resting	Pair
Mc14	Summer Brood	MLA Control	Red-breasted Merganser	2	11	0	0	13	Resting	-
Gc11	Summer Brood	Goose Control	Red-throated Loon	0	0	1	0	1	Foraging	-
Gc13	Summer Brood	Goose Control	Canada Goose	0	0	6	0	6	Resting	-
Gc13	Summer Brood	Goose Control	Arctic Tern	0	0	2	0	2	Pair	-
Gc13	Summer Brood	Goose Control	Greater White-fronted Goose	0	0	5	0	5	Resting	-
Gi11	Summer Brood	Goose Treatment	Herring Gull	0	0	0	0	0	-	-
Gi11	Summer Brood	Goose Treatment	Canada Goose	0	0	2	0	2	-	-

Site ID	Survey	Site Type	Species	# Male	# Female	# Unknown	# Young	Total	Primary Behaviour	Comments
Gi11	Summer Brood	Goose Treatment	Herring Gull	0	0	2	0	2	-	-
Ec01	Summer Brood	Energy Center	Canada Goose	0	0	21	0	21	-	-
Ec02	Summer Brood	Energy Center	Canada Goose	0	0	18	0	18	Resting	-
Ec02	Summer Brood	Energy Center	Red-throated Loon	0	0	1	0	1	-	-
Ec02	Summer Brood	Energy Center	Arctic Tern	0	0	1	0	1	Resting	-
Ec03	Summer Brood	Energy Center	Long-tailed Duck	0	2	0	9	11	Foraging	2 females with young
Ec03	Summer Brood	Energy Center	Greater Scaup	0	1	0	6	7	-	-
Ec04	Summer Brood	Energy Center	Canada Goose	0	0	5	0	5	-	-
Gi13	Summer Brood	Goose Treatment	Cackling Goose	0	0	18	0	18	-	Cackling goose
Gi16	Summer Brood	Goose Treatment	Herring Gull	0	0	1	0	1	-	-
Mc11	Fall Staging	MLA Control	Greater White-fronted Goose	0	0	18	0	18	Foraging	-
MC14	Fall Staging	MLA Control	Greater Scaup	0	0	7	0	7	Foraging	On pond
MI13	Fall Staging	MLA Treatment	Greater Scaup	0	1	0	0	1	Resting	On the pond
Mi12	Fall Staging	MLA Treatment	Tundra Swan	0	0	2	0	2	Resting	On water
Mi12	Fall Staging	MLA Treatment	Pacific Loon	0	0	4	0	4	Resting	On water
Mi12	Fall Staging	MLA Treatment	Long-tailed Duck	0	1	0	0	1	Resting	On water
Mi12	Fall Staging	MLA Treatment	Northern Pintail	0	0	11	0	11	Foraging	-
MI04	Fall Staging	MLA Treatment	Northern Pintail	0	0	55	0	55	Resting	On water
MI04	Fall Staging	MLA Treatment	Mallard	1	0	0	0	1	Resting	With pin tails
MI04	Fall Staging	MLA Treatment	Tundra Swan	0	0	2	0	2	Resting	On water
MI04	Fall Staging	MLA Treatment	Green-winged Teal	0	0	23	0	23	Resting	With group
MI04	Fall Staging	MLA Treatment	American Wigeon	2	0	0	0	2	Foraging	100% observed. Have pictures. Missed on S123 form

Site ID	Survey	Site Type	Species	# Male	# Female	# Unknown	# Young	Total	Primary Behaviour	Comments
GI13	Fall Staging	Goose Treatment	Greater White-fronted Goose	0	0	8	0	8	Resting	On water
Gc11	Fall Staging	Goose Control	Greater White-fronted Goose	0	0	18	0	18	Calling	Flew in and landed
Gc11	Fall Staging	Goose Control	Cackling Goose	0	0	4	0	4	Resting	Cackling goose. On land shoreline
Gc08	Fall Staging	Goose Control	Greater White-fronted Goose	0	0	21	0	21	Resting	On pond
Gc13	Fall Staging	Goose Control	Herring Gull	0	0	4	0	4	Resting	2 juvenile. On tundra
Gc14	Fall Staging	Goose Control	Herring Gull	0	0	1	0	1	Flying/Fly-over	Tundra
Gi11	Fall Staging	Goose Treatment	Red-breasted Merganser	0	0	10	0	10	Resting	In water
EC04	Fall Staging	Goose Treatment	Sandhill Crane	0	0	10	0	10	Flying/Fly-over	-
GI16	Fall Staging	Goose Treatment	Greater White-fronted Goose	0	0	32	0	32	Resting	With snow geese
GI16	Fall Staging	Goose Treatment	Snow Goose	0	0	5	0	5	Resting	4 blue 1 white.

Note: '-' denotes where no details were recorded in the datasheet.

APPENDIX N UPLAND BIRD SURVEY LOCATION AND HABITAT DATA, 2024

APPENDIX N: UPLAND BIRD SURVEY LOCATION AND HABITAT DATA, 2024

Site ID	Date	Survey Unit	Cloud	Temp (°C)	Light	Precipitation	Wind (Beaufort)	Time Start	Time End	Desktop Habitat Classification	Field Habitat Classification						Comments	
											Water Features (%)				Upland Features (%)	Lowland Features (%)		Barren Ground (%)
											Pond	Lake	River	Ocean				
PR-007	6/14/2024	Goose Treatment	Mostly Cloudy	5	Flat	None	3	10:25	12:15	Upland	27	0	3	0	50	5	15	-
PR-003	6/14/2024	Goose Treatment	Mostly Cloudy	8	Flat	None	3	14:56	16:27	Lowland	15	0	0	0	60	20	5	-
PR-004	6/14/2024	Goose Treatment	Mostly Cloudy	5	Flat	None	3	13:04	13:58	Lowland	55	0	0	0	30	5	10	-
RA29	6/17/2024	Goose Control	Mainly Clear	3	Flat	None	3	10:14	12:01	Lowland	29	0	1	0	20	35	15	-
RA-38	6/17/2024	Goose Control	Cloudy	5	Flat	None	4	12:47	14:05	Lowland	14	0	1	0	20	65	0	-
RA200	6/17/2024	Goose Control	Cloudy	5	Variable	None	4	14:55	15:55	Lowland	40	0	0	0	10	50	0	-
PR-009	6/18/2024	Goose Treatment	Mostly Cloudy	0	Patchy	None	4	13:24	15:05	Upland	5	0	0	0	10	65	10	-
PR-001	6/18/2024	Goose Treatment	Mostly Cloudy	0	Patchy	Drizzle	3	10:00	12:00	Upland	0	0	1	0	44	20	35	20 min pause for rain
RA30	6/19/2024	Goose Control	Mostly Cloudy	5	Patchy	None	3	14:36	15:53	Upland	0	0	0	0	90	5	5	-
RA11	6/19/2024	Goose Control	Mostly Cloudy	3	Patchy	None	1	10:15	12:30	Upland	0	0	0	0	65	30	5	30 min pause
LSA-306	6/21/2024	Goose Treatment	Mainly Clear	5	Bright	None	2	9:30	11:53	Lowland	5	0	0	0	75	10	10	10 min pause for heli noise nearby
P5	6/21/2024	Goose Treatment	Mainly Clear	5	Flat	None	4	11:50	13:11	Upland	0	0	0	0	65	5	30	-
P54	6/21/2024	Goose Treatment	Mostly Cloudy	5	Patchy	None	3	14:45	15:10	Lowland	0	0	0	0	65	10	25	-
RA2	6/22/2024	Goose Control	Mostly Cloudy	5	Patchy	None	1	9:03	11:16	Upland	5	0	0	0	65	20	10	-
RA301	6/22/2024	Goose Control	Mostly Cloudy	8	Patchy	None	1	12:16	13:39	Lowland	0	0	1	0	79	20	0	Very shrubby
P60-B	6/23/2024	Goose Treatment	Mostly Cloudy	0	Patchy	None	2	11:47	13:10	Upland	0	0	5	0	80	15	0	10 intermittent pauses for helicopter noise and rain
LSA-200	6/23/2024	Goose Treatment	Mostly Cloudy	0	Patchy	None	2	9:30	10:45	Mixed	0	0	0	0	85	5	10	-
PPA	6/24/2024	MLA Treatment	Cloudy	10	Patchy	None	1	14:25	16:57	Lowland	0	0	5	20	5	50	20	-
PP19	6/24/2024	MLA Treatment	Mainly Clear	8	Flat	None	1	12:47	14:00	Upland	1	0	0	0	94	5	0	-
PR-008	6/25/2024	Goose Treatment	Mostly Cloudy	7	Patchy	None	4	14:30	15:13	Lowland	50	0	0	0	35	10	5	-
PR-005	6/25/2024	Goose Treatment	Mostly Cloudy	5	Patchy	None	4	13:10	14:00	Upland	25	0	0	0	55	10	10	-
REF29	6/27/2024	MLA Control	Mostly Cloudy	5	Patchy	None	1	9:58	11:30	Upland	5	0	0	0	85	10	0	30 min pause for caribou. Caribou in plot resulted in only 75% being surveyed.
REF31	6/27/2024	MLA Control	Mostly Cloudy	3	Patchy	None	0	12:40	14:15	Upland	0	0	0	0	5	95	0	-
RA21	6/28/2024	Goose Control	Mostly Cloudy	7	Patchy	None	1	9:50	11:06	Upland	0	0	0	0	90	10	0	-
RA26	6/28/2024	Goose Control	Mainly Clear	10	Bright	None	1	11:53	13:04	Upland	0	0	0	0	95	5	0	-
RA14	6/28/2024	Goose Control	Cloudy	15	Flat	None	3	14:00	15:37	Lowland	3	0	0	0	60	7	30	-
P1-B	6/30/2024	Goose Treatment	Mainly Clear	19	Bright	None	3	8:50	10:32	Lowland	10	0	5	0	30	55	0	-
LSA-307-B	6/30/2024	Goose Treatment	Mainly Clear	26	Bright	None	3	12:20	14:00	Upland	15	0	0	0	45	5	35	-
REF2	7/1/2024	MLA Control	Mostly Cloudy	19	Patchy	None	3	12:32	13:58	Lowland	0	0	0	0	100	0	0	-
B12	7/1/2025	MLA Treatment	Mostly Cloudy	10	Patchy	None	1	9:47	11:10	Upland	0	0	0	1	55	2	42	-

Note: '-' denotes where no details were recorded in the datasheet.

APPENDIX O UPLAND BIRD PRISM SURVEY OBSERVATIONS, 2024

APPENDIX O: UPLAND BIRD PRISM SURVEY OBSERVATIONS, 2024

Site ID	Species Code	Species Name	# Nest	# Pairs	# Male	# Female	# Unknown	# Total ¹	Comments
PR-007	LALO	Lapland Longspur	0	5	6	0	0	16	-
PR-007	SAVS	Savannah Sparrow	0	0	6	0	2	8	-
PR-007	SESA	Semipalmated Sandpiper	0	0	0	0	1	1	-
PR-003	LALO	Lapland Longspur	0	0	20	1	2	23	Potential nest
PR-003	SAVS	Savannah Sparrow	0	0	1	0	3	4	Potential nest
PR-003	SESA	Semipalmated Sandpiper	0	0	0	0	2	2	-
PR-003	WIPT	Willow Ptarmigan	0	0	0	0	1	1	-
PR-003	CORE	Common Redpoll	0	0	0	0	2	2	-
PR-004	LALO	Lapland Longspur	0	2	3	1	0	8	-
PR-004	WIPT	Willow Ptarmigan	0	0	0	0	1	1	-
PR-004	SESA	Semipalmated Sandpiper	0	0	0	0	1	1	-
PPA	SEPL	Semipalmated Plover	1	1	0	0	1	3	-
PPA	SEPL	Semipalmated Plover	1	1	0	0	0	2	-
PPA	CORE	Common Redpoll	0	0	0	0	14	14	-
PPA	SAVS	Savannah Sparrow	0	0	2	0	3	5	-
PPA	SESA	Semipalmated Sandpiper	0	0	0	0	4	4	-
PPA	ATSP	American Tree Sparrow	0	0	1	0	0	1	-
LSA-306	ATSP	American Tree Sparrow	0	0	2	0	1	3	-
LSA-306	LALO	Lapland Longspur	0	1	6	2	0	10	-
LSA-306	SAVS	Savannah Sparrow	0	0	2	0	1	3	-
LSA-306	HOLA	Horned Lark	0	0	0	3	0	3	-
LSA-306	RNPH	Red-necked Phalarope	0	0	1	0	0	1	-
PR-008	SAVS	Savannah Sparrow	0	1	2	0	1	5	-
PR-008	WCSP	White-crowned Sparrow	0	0	0	0	1	1	-
PR-008	LALO	Lapland Longspur	0	3	5	0	2	13	-
PR-008	SESA	Semipalmated Sandpiper	0	0	0	0	1	1	-
PR-008	AMPI	American Pipit	0	0	0	0	1	1	Potential nest
PR-005	LALO	Lapland Longspur	0	4	6	1	0	15	-
PR-005	WIPT	Willow Ptarmigan	0	0	7	0	0	7	-
PR-005	SAVS	Savannah Sparrow	0	0	0	0	1	1	-
PR-005	WCSP	White-crowned Sparrow	0	0	1	0	0	1	-
PR-005	ATSP	American Tree Sparrow	0	0	1	0	0	1	-
PR-005	CORE	Common Redpoll	0	1	0	0	0	2	-
RA29	LALO	Lapland Longspur	0	4	10	3	0	21	-
RA29	ROPT	Rock Ptarmigan	0	0	0	0	1	1	-
RA29	SAVS	Savannah Sparrow	0	0	3	2	5	10	-

APPENDIX O: UPLAND BIRD PRISM SURVEY OBSERVATIONS, 2024

Site ID	Species Code	Species Name	# Nest	# Pairs	# Male	# Female	# Unknown	# Total ¹	Comments
RA29	LESA	Least Sandpiper	0	0	0	0	1	1	-
RA29	RNPH	Red-necked Phalarope	0	0	2	1	0	3	-
RA29	ATSP	American Tree Sparrow	0	0	0	0	1	1	-
RA29	SESA	Semipalmated Sandpiper	0	0	0	0	1	1	-
RA29	CORE	Common Redpoll	0	0	0	0	1	1	-
RA2	ATSP	American Tree Sparrow	1	1	0	0	1	3	-
RA2	LALO	Lapland Longspur	0	1	9	2	0	13	-
RA2	SAVS	Savannah Sparrow	0	0	6	0	2	8	-
RA2	WIPT	Willow Ptarmigan	0	0	0	0	1	1	-
RA2	AMGP	American Golden-Plover	0	0	2	1	0	3	-
RA2	LESA	Least Sandpiper	0	0	0	0	2	2	-
RA2	HOLA	Horned Lark	0	0	0	1	0	1	-
RA21	SAVS	Savannah Sparrow	1	1	3	0	0	5	-
RA21	WIPT	Willow Ptarmigan	1	1	0	0	1	3	-
RA21	LALO	Lapland Longspur	0	1	3	4	0	9	-
RA21	ATSP	American Tree Sparrow	0	0	1	0	0	1	Female would not flush
B12	HOLA	Horned Lark	0	2	2	0	2	8	-
B12	WCSP	White-crowned Sparrow	0	1	0	0	1	3	-
B12	LALO	Lapland Longspur	0	0	0	1	2	3	-
P1-B	SAVS	Savannah Sparrow	0	3	4	0	3	13	-
P1-B	ATSP	American Tree Sparrow	0	2	3	0	1	8	-
P1-B	LALO	Lapland Longspur	0	0	1	1	0	2	-
P1-B	SEPL	Semipalmated Plover	0	0	0	0	1	1	-
P1-B	SESA	Semipalmated Sandpiper	0	0	0	0	1	1	-
LSA-307-B	HOLA	Horned Lark	0	0	2	0	4	6	-
LSA-307-B	CORE	Common Redpoll	0	1	0	0	0	2	-
LSA-307-B	LALO	Lapland Longspur	0	1	5	2	0	9	-
LSA-307-B	WCSP	White-crowned Sparrow	0	1	1	0	1	4	-
LSA-307-B	SAVS	Savannah Sparrow	0	0	2	0	2	4	-
LSA-307-B	ATSP	American Tree Sparrow	0	0	0	0	2	2	-
LSA-307-B	AMPI	American Pipit	0	0	0	0	1	1	-
REF2	WCSP	White-crowned Sparrow	0	1	0	0	3	5	-
REF2	LALO	Lapland Longspur	0	1	1	1	3	7	-
REF2	ATSP	American Tree Sparrow	1	1	0	0	2	4	-
REF2	CORE	Common Redpoll	0	0	0	0	3	3	Potential nest
REF29	SAVS	Savannah Sparrow	0	0	5	0	2	7	-

APPENDIX O: UPLAND BIRD PRISM SURVEY OBSERVATIONS, 2024

Site ID	Species Code	Species Name	# Nest	# Pairs	# Male	# Female	# Unknown	# Total ¹	Comments
REF29	WCSP	White-crowned Sparrow	0	0	4	0	3	7	-
REF29	CORE	Common Redpoll	0	0	0	0	2	2	-
REF29	LALO	Lapland Longspur	0	0	1	1	0	2	-
REF29	ATSP	American Tree Sparrow	0	1	1	0	1	4	Potential nest
REF29	SESA	Semipalmated Sandpiper	0	1	0	0	0	2	-
RA26	LALO	Lapland Longspur	0	1	3	3	0	8	-
RA26	SAVS	Savannah Sparrow	0	0	1	0	2	3	-
RA26	CORE	Common Redpoll	0	0	0	0	1	1	Potential nest
RA14	CORE	Common Redpoll	0	0	0	0	3	3	-
RA14	LALO	Lapland Longspur	0	1	4	0	1	7	-
RA14	SAVS	Savannah Sparrow	0	1	3	0	1	6	-
RA14	HASP	Harris's Sparrow	0	0	0	0	2	2	-
RA14	WCSP	White-crowned Sparrow	0	0	0	0	2	2	-
RA38	LALO	Lapland Longspur	1	3	3	2	1	12	-
RA38	ATSP	American Tree Sparrow	0	0	2	0	0	2	-
RA38	SAVS	Savannah Sparrow	0	0	0	0	1	1	-
RA38	PESA	Pectoral Sandpiper	0	0	0	0	1	1	-
PR-009	LALO	Lapland Longspur	0	0	5	4	0	9	-
PR-009	SAVS	Savannah Sparrow	0	2	5	0	0	9	-
PR-009	ATSP	American Tree Sparrow	0	1	4	0	0	6	-
PR-009	WIPT	Willow Ptarmigan	0	0	1	0	0	1	-
PR-009	CORE	Common Redpoll	0	1	0	0	0	2	-
PR-009	HORE	Hoary Redpoll	0	0	1	0	0	1	-
RA30	LALO	Lapland Longspur	0	3	6	2	0	14	-
RA30	SAVS	Savannah Sparrow	0	0	2	0	1	3	-
RA30	WIPT	Willow Ptarmigan	0	0	1	0	0	1	-
RA30	WCSP	White-crowned Sparrow	0	0	0	0	1	1	-
PR-001	LALO	Lapland Longspur	0	0	7	1	0	8	-
PR-001	CORE	Common Redpoll	0	0	0	0	3	3	-
PR-001	ATSP	American Tree Sparrow	0	1	4	0	1	7	-
PR-001	SAVS	Savannah Sparrow	0	0	3	2	0	5	Potential nest
PR-001	WCSP	White-crowned Sparrow	0	0	1	0	0	1	-
PR-001	HASP	Harris's Sparrow	0	0	1	0	0	1	-
PR-001	WIPT	Willow Ptarmigan	0	0	1	0	0	1	-
PR-001	WCSP	White-crowned Sparrow	0	0	0	0	1	1	-
P60-B	SESA	Semipalmated Sandpiper	1	1	0	0	0	2	-

APPENDIX O: UPLAND BIRD PRISM SURVEY OBSERVATIONS, 2024

Site ID	Species Code	Species Name	# Nest	# Pairs	# Male	# Female	# Unknown	# Total ¹	Comments
P60-B	SAVS	Savannah Sparrow	0	1	2	0	4	8	-
P60-B	LALO	Lapland Longspur	0	0	1	1	0	2	-
P60-B	WIPT	Willow Ptarmigan	0	0	1	1	0	2	2m flush calling/agitated so didn't find nest
LSA-200	SESA	Semipalmated Sandpiper	1	1	0	0	0	2	-
LSA-200	LALO	Lapland Longspur	0	0	4	0	1	5	-
LSA-200	SAVS	Savannah Sparrow	0	0	2	0	1	3	-
LSA-200	HORE	Hoary Redpoll	0	0	0	0	2	2	-
LSA-200	AMRO	American Robin	0	0	1	0	0	1	-
P5	HOLA	Horned Lark	0	0	5	1	0	6	-
P5	ROPT	Rock Ptarmigan	0	0	0	0	1	1	-
P5	HASP	Harris's Sparrow	0	0	1	0	0	1	-
P5	SAVS	Savannah Sparrow	0	0	1	0	0	1	-
P5	LALO	Lapland Longspur	0	0	3	0	0	3	-
P5	WIPT	Willow Ptarmigan	0	0	1	0	0	1	-
PP19	SAVS	Savannah Sparrow	0	0	5	0	2	7	-
PP19	ATSP	American Tree Sparrow	0	0	0	0	1	1	-
RA11	LALO	Lapland Longspur	1	3	4	1	0	11	-
RA11	SAVS	Savannah Sparrow	0	0	3	0	7	10	-
RA11	WCSP	White-crowned Sparrow	0	0	0	0	1	1	-
RA11	ATSP	American Tree Sparrow	0	0	4	0	1	5	-
RA11	WIPT	Willow Ptarmigan	0	0	3	0	0	3	-
REF31	SAVS	Savannah Sparrow	0	0	2	0	1	3	-
REF31	ATSP	American Tree Sparrow	0	0	0	0	5	5	-
REF31	CORE	Common Redpoll	0	0	1	0	1	2	-
REF31	WCSP	White-crowned Sparrow	0	0	1	0	3	4	-
REF31	LALO	Lapland Longspur	0	0	1	1	0	2	-
RA301	LALO	Lapland Longspur	0	0	1	0	0	1	-
RA301	SAVS	Savannah Sparrow	0	0	2	0	2	4	-
RA301	ATSP	American Tree Sparrow	0	0	2	0	0	2	-
RA301	WIPT	Willow Ptarmigan	0	0	1	0	0	1	-
RA200	LALO	Lapland Longspur	0	3	1	0	0	7	-
RA200	ATSP	American Tree Sparrow	0	0	0	0	1	1	-
RA200	PESA	Pectoral Sandpiper	0	0	0	0	2	2	-
RA200	SAVS	Savannah Sparrow	0	0	1	0	0	1	Potential nest
RA200	HEGU	Herring Gull	0	0	0	0	2	2	-

APPENDIX O: UPLAND BIRD PRISM SURVEY OBSERVATIONS, 2024

Site ID	Species Code	Species Name	# Nest	# Pairs	# Male	# Female	# Unknown	# Total ¹	Comments
P54	SAVS	Savannah Sparrow	0	1	2	0	0	4	-
P54	ATSP	American Tree Sparrow	0	0	0	0	0	0	-
P54	LALO	Lapland Longspur	0	0	3	0	0	3	-
P54	HOLA	Horned Lark	0	0	1	0	0	1	Potential nest
P54	HASP	Harris's Sparrow	0	2	1	0	0	5	Potential nest
P54	WIPT	Willow Ptarmigan	0	0	1	0	0	1	-
P54	WCSP	White-crowned Sparrow	0	0	1	0	1	2	-

Note: '-' denotes where no details were recorded in the datasheet.

¹ The total number of observations is calculated by adding up the number of observations in all preceding columns, including doubling the number in the "Pairs" column, as a pair is two birds.

APPENDIX P UPLAND BIRD VRPC SURVEY
OBSERVATIONS, 2024

APPENDIX P: UPLAND BIRD VRPC SURVEY OBSERVATIONS, 2024

Site ID	Species Code	Species Name	# Male	# Female	# Unknown	# Young	# Total	Behaviour	Quadrant	Distance	Timing	Comments
PPA	SAVS	Savannah Sparrow	1	1	0	0	2	Visual	NW	45	0-3	Flew from NW to NE
PPA	SESA	Semipalmated Sandpiper	0	0	1	0	1	Calling	NE	50	0-3	-
PPA	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	Singing	50	3-5	-
PPA	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	SE	50	0-3	-
LSA-306	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	50	0-3	-
LSA-306	LALO	Lapland Longspur	0	0	1	0	1	Calling	SW	40	3-4	-
PR-008	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	SW	50	0-3	-
PR-008	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	SE	50	0-3	-
PR-005	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	60	0-3	-
PR-005	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	NW	75	0-3	-
PR-005	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	SW	75	3-5	-
PR-005	LALO	Lapland Longspur	1	0	0	0	1	Singing	SE	75	3-5	-
RA29	SESA	Semipalmated Sandpiper	0	0	2	0	2	Calling	NW	100	3-5	-
RA29	SESA	Semipalmated Sandpiper	0	0	1	0	1	Calling	NW	100	3-5	-
RA29	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	45	3-5	-
RA29	LALO	Lapland Longspur	1	0	0	0	1	Singing	SW	95	0-3	-
RA29	LALO	Lapland Longspur	1	0	0	0	1	Singing	NE	75	0-3	-
RA2	LALO	Lapland Longspur	1	0	0	0	1	Singing	NE	75	0-3	-
RA2	SESA	Semipalmated Sandpiper	0	0	1	0	1	Calling	NE	100	0-3	-
RA2	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NE	50	0-3	-
RA2	LESA	Least Sandpiper	0	0	1	0	1	Calling	NE	100	3-5	-
RA2	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	SW	50	3-5	-
RA2	LALO	Lapland Longspur	1	0	0	0	1	Singing	SW	75	0-3	-
RA2	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	NW	35	3-5	-
RA2	LALO	Lapland Longspur	1	0	0	0	1	Visual	NW	20	0-3	-
RA2	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	30	3-5	-
B12	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	100	0-3	-
B12	WCSP	White-crowned Sparrow	1	0	0	0	1	Singing	NW	100	0-3	-
B12	WCSP	White-crowned Sparrow	1	0	0	0	1	Singing	NE	80	0-3	-
P1-B	CORE	Common Redpoll	0	0	2	0	2	Calling	NW	95	0-3	-
P1-B	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	50	3-5	-
P1-B	LALO	Lapland Longspur	0	0	1	0	1	Calling	NE	60	0-3	-
P1-B	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NE	40	0-3	-
P1-B	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	SW	40	0-3	-
LSA-307-B	LALO	Lapland Longspur	1	0	0	0	1	Singing	NW	60	3-5	-
LSA-307-B	CORE	Common Redpoll	0	0	1	0	1	Calling	NE	100	0-3	-
LSA-307-B	WCSP	White-crowned Sparrow	1	0	0	0	1	Singing	NW	100	0-3	-
LSA-307-B	SAVS	Savannah Sparrow	1	0	0	0	1	Visual	SW	30	0-3	FLEW FROM SW TO NW

APPENDIX P: UPLAND BIRD VRPC SURVEY OBSERVATIONS, 2024

Site ID	Species Code	Species Name	# Male	# Female	# Unknown	# Young	# Total	Behaviour	Quadrant	Distance	Timing	Comments
LSA-307-B	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	SW	95	0-3	-
LSA-307-B	WCSP	White-crowned Sparrow	1	0	0	0	1	Singing	SW	100	0-3	-
REF-2	YEWA	Yellow Warbler	1	0	0	0	1	Singing	SW	75	0-3	-
REF-2	CORE	Common Redpoll	0	0	3	0	3	Calling	SW	65	3-5	-
REF-2	YEWA	Yellow Warbler	1	0	0	0	1	Singing	SE	75	0-3	-
REF-29	WCSP	White-crowned Sparrow	1	0	0	0	1	Singing	NE	100	0-3	-
REF-29	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	SW	95	0-3	-
REF-29	WCSP	White-crowned Sparrow	0	0	1	0	1	Visual	SW	10	0-3	-
REF-29	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	95	0-3	-
REF-29	WCSP	White-crowned Sparrow	1	0	0	0	1	Singing	NW	50	0-3	-
RA26	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	95	3-5	-
RA26	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NE	60	0-3	-
RA26	SAVS	Savannah Sparrow	1	0	0	0	1	Visual	SW	55	0-3	-
RA14	CORE	Common Redpoll	0	0	1	0	1	Calling	NE	75	3-5	-
RA-38	LALO	Lapland Longspur	1	0	0	0	1	Visual	NE	100	3-5	-
RA-38	LALO	Lapland Longspur	0	0	1	0	1	Calling	NE	75	0-3	-
RA-38	LALO	Lapland Longspur	1	0	0	0	1	Visual	NW	30	0-3	FLEW FROM NW TO NE
PR-009	CANG	Canada Goose	0	0	1	0	1	Calling	NE	90	0-3	-
PR-009	LALO	Lapland Longspur	1	0	0	0	1	Singing	NW	80	3-5	-
PR-009	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	70	0-3	-
RA30	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	40	0-3	-
RA30	LALO	Lapland Longspur	1	0	0	0	1	Singing	NW	60	0-3	-
RA30	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	40	3-5	-
RA30	LALO	Lapland Longspur	1	0	0	0	1	Singing	SW	50	3-5	-
RA30	LALO	Lapland Longspur	1	1	0	0	2	Visual	NW	10	0-3	-
RA30	ATSP	American Tree Sparrow	0	0	0	1	1	Visual	NE	30	0-3	-
PR-001	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	75	3-5	-
PR-001	LALO	Lapland Longspur	1	0	0	0	1	Singing	NE	65	0-3	-
PR-001	ATSP	American Tree Sparrow	1	0	0	0	1	Visual	NW	30	0-3	-
PR-001	LALO	Lapland Longspur	1	0	0	0	1	Singing	SW	75	0-3	-
P60-B	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	50	0-3	-
P60-B	SAVS	Savannah Sparrow	0	0	2	0	2	Visual	NE	30	0-3	-
P60-B	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	SW	75	0-3	-
LSA200	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	100	3-5	-
P5	HOLA	Horned Lark	1	0	0	0	1	Singing	NW	50	0-3	-
P5	HOLA	Horned Lark	3	0	0	0	3	Visual	Singing	40	0-3	Two flew from S to SE, one flew from S to SW
P5	LALO	Lapland Longspur	1	0	0	0	1	Singing	SE	75	0-3	-

APPENDIX P: UPLAND BIRD VRPC SURVEY OBSERVATIONS, 2024

Site ID	Species Code	Species Name	# Male	# Female	# Unknown	# Young	# Total	Behaviour	Quadrant	Distance	Timing	Comments
PP19	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	NW	60	3-5	-
PP19	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NE	60	0-3	-
PP19	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	NE	75	0-3	-
PP19	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	SW	30	0-3	-
RA11	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	NE	100	3-5	-
RA11	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	NE	50	0-3	-
RA11	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	SE	75	3-5	-
RA11	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	SE	100	3-5	-
RA11	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	SW	40	0-3	-
RA11	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	NW	25	0-3	-
REF31	WCSP	White-crowned Sparrow	1	0	0	0	1	Singing	NW	85	0-3	-
REF31	WCSP	White-crowned Sparrow	1	0	0	0	1	Singing	NW	50	3-5	-
REF31	LALO	Lapland Longspur	0	0	1	0	1	Calling	SW	60	0-3	-
REF31	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	SW	35	0-3	-
RA301	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	NW	40	3-5	-
RA301	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	95	0-3	-
RA301	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	SE	75	0-3	-
RA200	LALO	Lapland Longspur	1	0	0	0	1	Singing	NW	50	0-3	-
RA200	LALO	Lapland Longspur	1	0	0	0	1	Visual	SW	20	0-3	FLEW FROM SW TO SE
P54	HASP	Harris's Sparrow	1	0	0	0	1	Singing	NE	50	0-3	-
RA21	SAVS	Savannah Sparrow	0	0	1	0	1	Visual	NW	30	0-3	-
RA21	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NE	40	0-3	-
RA21	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NE	75	0-3	-
RA21	ATSP	American Tree Sparrow	1	0	0	0	1	Singing	SE	95	0-3	-
PR004	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NE	95	-	-
PR004	LALO	Lapland Longspur	1	0	0	0	1	Visual	NE	70	-	-
PR004	LALO	Lapland Longspur	1	0	0	0	1	Visual	NE	10	-	-
PR007	CORE	Common Redpoll	0	0	1	0	1	Visual	NW	95	3-5	-
PR007	LALO	Lapland Longspur	1	0	0	0	1	Visual	NW	70	0-3	-
PR007	LALO	Lapland Longspur	1	0	0	0	1	Singing	NE	70	0-3	-
PR007	SESA	Semipalmated Sandpiper	0	0	1	0	1	Visual	SW	50	3-5	-
PR003	LALO	Lapland Longspur	1	0	0	0	1	Singing	NW	100	3-5	-
PR003	SAVS	Savannah Sparrow	1	0	0	0	1	Singing	NW	50	0-3	-
PR003	LALO	Lapland Longspur	1	0	0	0	1	Singing	NW	30	0-3	-
PR003	LALO	Lapland Longspur	1	0	0	0	1	Visual	NE	50	3-5	-
PR003	LALO	Lapland Longspur	1	0	0	0	1	Visual	NE	40	0-3	-
PR003	WIPT	Willow Ptarmigan	0	0	1	0	1	Calling	NE	55	3-5	-

Note: '-' denotes where no details were recorded in the datasheet.

APPENDIX Q REGIONAL AERIAL RAPTOR SURVEY DATA, 2024

APPENDIX Q: REGIONAL AERIAL RAPTOR SURVEY DATA, 2024

Site ID	Species Name ¹	Survey Zone	Spring Occupancy Survey			Summer Productivity Survey				
			Historic Nest Found?	# Adults	Adult Incubating?	Nest found?	# Adults	# Young	# Eggs	Productivity Status
RN1	Peregrine falcon	Control	Y	0	N	Y	0	0	0	Unoccupied
RN10	Golden eagle*	Control	Y	1	Y	Y	2	2	0	Productive
RN18	Peregrine falcon	Control	Y	2	N	Y	0	0	0	Unoccupied
RN20	Peregrine falcon	Control	Y	2	N	Y	1	4	0	Productive
RN3	Rough-legged hawk	Control	Y	0	N	Y	0	0	0	Unoccupied
RN37	Peregrine falcon	Control	Y	0	N	Y	0	0	0	Unoccupied
RN42	Rough-legged hawk	Control	Y	0	N	Y	0	0	0	Unoccupied
RN43	Rough-legged hawk	Control	Y	0	N	Y	0	0	0	Unoccupied
RN44	Peregrine falcon	Control	Y	0	N	Y	0	0	0	Unoccupied
RN45	Peregrine falcon	Control	Y	0	N	Y	0	0	0	Unoccupied
RN46	Peregrine falcon	Control	Y	1	N	Y	2	1	0	Productive
RN47	Gyr Falcon	Control	Y	2	Y	Y	0	0	0	Empty, Assumed Fledged/Productive
RN48	Peregrine falcon	Control	Y	0	N	Y	0	0	0	Unoccupied
RN49	Peregrine falcon	Control	Y	0	N	Y	0	0	0	Unoccupied
RN50	Golden eagle*	Control	Y	1	Y	Y	1	1	0	Productive
RN6	Gyr Falcon	Control	Y	2	Y	Y	0	0	0	Empty, Assumed Fledged/Productive
RN60	Rough-legged hawk	Control	Y	0	N	Y	0	0	0	Unoccupied
RN62	Peregrine falcon	Control	Y	2	Y	Y	1	0	0	Empty, Assumed Fledged/Productive
RN65	Golden eagle*	Control	Y	2	Y	Y	0	1	0	Productive
RN7	Gyr Falcon	Control	Y	0	N	Y	0	0	0	Unoccupied
RN8	Common raven	Control	Y	0	N	Y	0	0	0	Unoccupied
RN22	Gyr Falcon	Control	New	0	N	Y	0	0	0	Unoccupied
RN23	Golden eagle*	Control	New	0	N	Y	0	0	0	Unoccupied
RN24	Golden eagle*	Control	New	0	N	Y	0	0	0	Unoccupied
RN25	Golden eagle*	Control	New	0	N	Y	0	0	0	Unoccupied
RN26	Peregrine falcon	Control	New	0	N	Y	0	0	0	Unoccupied
RN27	Peregrine falcon	Control	New	0	N	Y	0	0	0	Unoccupied
RN39	Peregrine falcon	Control	New	2	N	Y	0	2	0	Productive
RN40	Peregrine falcon	Control	New	0	N	Y	0	0	0	Unoccupied
RN41	Common raven	Control	New	0	N	Y	0	0	0	Unoccupied
RN5	Peregrine falcon	Control	New	0	N	Y	0	0	0	Unoccupied
RN57	Gyr Falcon	Control	New	1	Y	Y	1	0	0	Empty apart from 1 failed egg, Assumed Fledged/Productive
RN58	Golden eagle*	Control	New	0	N	Y	0	0	0	Unoccupied
RN59	Peregrine falcon	Control	New	0	N	Y	0	0	0	Unoccupied
RN61	Rough-legged hawk	Control	New	0	N	Y	0	0	0	Unoccupied
RN64	Golden eagle*	Control	New	2	N	Y	2	0	0	Unoccupied, Non-breeder or nest elsewhere
RN66	Golden eagle*	Control	New	0	N	Y	0	0	0	Unoccupied
RN69	Golden eagle*	Control	NA	NA	NA	New	2	1	0	Productive
RN11	Peregrine falcon	Control	N	0	N	N	0	0	0	Unoccupied
RN17	Rough-legged hawk	Control	N	0	N	N	0	0	0	Unoccupied
RN19	Rough-legged hawk	Control	N	0	N	N	0	0	0	Unoccupied
RN21	Rough-legged hawk	Control	N	0	N	N	0	0	0	Unoccupied

APPENDIX Q: REGIONAL AERIAL RAPTOR SURVEY DATA, 2024

Site ID	Species Name ¹	Survey Zone	Spring Occupancy Survey			Summer Productivity Survey				
			Historic Nest Found?	# Adults	Adult Incubating?	Nest found?	# Adults	# Young	# Eggs	Productivity Status
RN38	Rough-legged hawk	Control	N	0	N	N	0	0	0	Unoccupied
RN4	Peregrine falcon	Control	N	0	N	Y	0	0	0	Unoccupied
RN51	Golden eagle*	Control	N	0	N	N	0	0	0	Unoccupied
RN52	Gyr Falcon	Control	N	0	N	N	0	0	0	Unoccupied
RN53	Rough-legged hawk	Control	N	0	N	N	0	0	0	Unoccupied
RN54	Golden eagle*	Control	N	1	N	N	0	0	0	Unoccupied
RN55	Rough-legged hawk	Control	N	0	N	N	0	0	0	Unoccupied
RN56	Rough-legged hawk	Control	N	0	N	N	0	0	0	Unoccupied
RN63	Common raven	Control	N	0	N	N	0	0	0	Unoccupied
RN9	Peregrine falcon	Control	N	2	N	Y	0	0	0	Unoccupied
RN15 ²	Rough-legged hawk	Control	N	0	N	N	0	0	0	Unoccupied
RN12	Golden eagle*	Treatment	Y	2	N	Y	0	0	0	Unoccupied
RN16	Peregrine falcon	Control	Y	0	N	Y	1	4	0	Productive
RN2	Peregrine falcon	Treatment	Y	1	N	Y	2	0	0	Unoccupied, Non-breeder or nest elsewhere
RN28	Rough-legged hawk	Treatment	Y	0	N	Y	0	0	0	Unoccupied
RN29	Rough-legged hawk	Treatment	Y	0	N	Y	0	0	0	Unoccupied
RN30	Peregrine falcon	Treatment	Y	2	N	Y	0	0	0	Unoccupied
RN31	Common raven	Treatment	New	0	N	Y	0	0	0	Unoccupied
RN32	Common raven	Treatment	New	1	Y	Y	0	0	0	Empty, Assumed Fledged/Productive
RN13	Peregrine falcon	Treatment	N	1	N	Y	1	3	0	Productive
RN14	Common raven	Treatment	N	0	N	N	0	0	0	Unoccupied
RN33	Gyr Falcon	Treatment	N	0	N	N	0	0	0	Unoccupied
RN34	Gyr Falcon	Treatment	N	0	N	N	0	0	0	Unoccupied
RN35	Gyr Falcon	Treatment	N	0	N	N	0	0	0	Unoccupied
RN36	Rough-legged hawk	Treatment	N	0	N	Y	0	0	3	Productive
RN67	Gyr Falcon	Treatment	N	0	N	N	0	0	0	Unoccupied
RN68	Peregrine falcon	Treatment	N	1	N	N	1	0	0	Unoccupied, Non-breeder or nest elsewhere

Note: '-' denotes where no details were recorded in the datasheet.

Y = Yes; N = No

Bolded rows are nest sites which were productive, or assumed productive, in 2024.

* Indicates a species of conservation concern.

¹ The species name is provided for all nests either based on the species currently occupying the nest site, historic nest occupancy, or nest site characteristics.

² No suitable cliff nesting habitat present.

APPENDIX R MARINE MAMMAL AND SEABIRD OBSERVATIONS DURING SHIPPING, 2024

APPENDIX R: MARINE MAMMAL AND SEABIRD OBSERVATIONS DURING SHIPPING, 2024

Date	Time	Latitude	Longitude	Species Group (Bird or Mammal)	Species	Number Observed	Behaviour	Initial Distance from Vessel (m)	Mitigation Action?	Ship Strike?	Notes
24-Aug-24	20:15	66.651936	-107.61887	Marine Mammal	Harp seal	2	Travel	-	No	-	Nil
25-Aug-24	09:45	21:39	-89.133314	Marine Mammal	Bearded seal	4	-	-	No	-	-
28-Aug-24	3:24	60.984432	-63.167779	Marine Mammal	Fin whale	5	Travelling	-	No	-	appeared strange, slowly heading to 270
30-Aug-24	11:30	71.918601	-94.166647	Marine Mammal	Polar bear	4	Resting	-	No	-	Sighted on southern coast
01-Oct-24	13:05	69.5	-63.435833	Seabird	Northern fulmar	3	-	10	No	-	1 alone, 2 in pair
02-Oct-24	13:00	65.416667	-59.301389	Seabird	Northern fulmar	4	Following	0-20	No	-	-
02-Oct-24	13:00	65.416667	-59.301389	Seabird	Peregrine falcon	1	Following ship	0-40	No	-	flew alongside and around the ship. Occasionally resting on crane and railing
03-Oct-24	13:00	61.217222	-57.685	Seabird	Northern fulmar	5	circling	10-20	No	-	2 together
22-Aug-24	12:15	72.150833	-74.5675	Seabird	Northern fulmar	4	circling	2	No	-	-
23-Aug-24	12:15	73.983889	-86.601111	Seabird	Thick-billed murre	1	Escape swim	15	No	-	-
23-Aug-24	12:15	73.983889	-86.601111	Seabird	Northern fulmar	3	circling ship	5	No	-	2 together, 1 alone
24-Aug-24	8:50	71.935278	-94.2525	Seabird	Northern fulmar	6	Flight	30	No	-	two fulmars seen circling over strait at much higher elevation than usual (approx. 120m)
24-Aug-24	8:50	71.935278	-94.2525	Seabird	Thick-billed murre	12	Flight	400	No	-	flying as a flock
25-Aug-24	12:15	68.917222	-105.683611	Seabird	Tundra swan	4	Resting on water	300	No	-	-
25-Aug-24	12:15	68.917222	-105.683611	Seabird	Snow goose	60	Travelling	420	No	-	3 different flocks
29-Sep-24	11:00	74.234722	-91.866667	Seabird	Willow ptarmigan	8	-	Crossed ship	No	-	-
29-Sep-24	11:00	74.234722	-91.866667	Seabird	Northern fulmar	1	-	15	No	-	-
02-Sep-24	14:04	69.033611	-101.301111	Seabird	Glaucous gull	1	Flight	50	No	-	Nil
02-Sep-24	9:50	68.7	-63.6	Seabird	Brant	13	Flight	150	No	-	-
02-Sep-24	9:15	68.4	-64	Seabird	Snow goose	4	Flight	100	No	-	-
09-Sep-24	8:20	68.45	-64.4	Seabird	Northern fulmar	3	Flight	50	No	-	-
02-Sep-24	8:00	68.45	-104.42	Seabird	Brant	8	-	100	No	-	-
07-Sep-24	17:00	67.15	-107.48	Seabird	Common Eider	20	-	500	No	-	-
07-Sep-24	17:00	67.15	-107.48	Seabird	Greater scaup	20	-	300	No	-	-
28-Aug-24	16:50	67.916667	-108.283889	Seabird	Snow geese	11	Escape flight	140	No	-	Nil
28-Aug-24	14:20	68.251389	-108.985278	Seabird	Canada goose	10+	Escape flight	150	No	-	Nil
28-Aug-24	1:10	68.651389	-109.9175	Seabird	Common Eider	2	Escape flight	40	No	-	Nil
27-Aug-24	19:47	69.319167	-101.919167	Seabird	Snow goose	1	Escape flight	90	No	-	Nil
26-Aug-24	2:00	71.918889	-93.918056	Seabird	Herring gull	1	Escape flight	30	No	-	-
26-Aug-24	16:35	73.450833	-90.185833	Seabird	Northern fulmar	3	Escape flight	100	No	-	Nil
26-Aug-24	18:53	73.034444	-90.916667	Seabird	Black-legged kittiwake	2	Escape flight	20	No	-	Nil
26-Aug-24	0:10	73.869167	-79.184167	Seabird	Northern fulmar	2	-	30	No	-	Nil
15-Sep-24	18:05	60.5	-68.5	Seabird	Pomarine jaeger	2	Flight	100	No	-	-
15-Sep-24	18:05	60.5	-68.5	Seabird	Arctic tern	2	Flight	100	No	-	-
16-Sep-24	15:15	65.12	-59.89	Seabird	Pomarine jaeger	2	Flight	200	No	-	-
16-Sep-24	15:15	65.12	-59.89	Seabird	Northern fulmar	2	Flight	100	No	-	-
17-Sep-24	14:00	70.138056	-65.390278	Seabird	Black gullmot	10	Escape flight	100	No	-	All black
17-Sep-24	14:00	70.138056	-65.390278	Seabird	Arctic tern	2	Flight	50	No	-	-
17-Sep-24	14:00	70.138056	-65.390278	Seabird	Razorbill	6	Flight	50	No	-	-
19-Sep-24	15:30	73.973056	-88.93	Seabird	Arctic tern	10	Flight	100	No	-	-
19-Sep-24	15:30	73.973056	-88.93	Seabird	Northern fulmar	1	Flight	100	No	-	-
04-Oct-24	14:00	74.076389	-96.00167	Seabird	Arctic tern	2	Flight	50	No	-	-
13-Oct-24	15:00	70.917778	-68.317778	Seabird	White dove	3	Flight	500	No	-	-
16-Oct-24	13:00	61.313333	-66.233611	Seabird	Northern fulmar	1	Flight	100	No	-	All white
27-Aug-24	5:10	62.1025	-62.783611	Seabird	Unknown gull	4	Curious flight aroundd ship	25	No	-	White body, brownish wings with darker tips

APPENDIX R: MARINE MAMMAL AND SEABIRD OBSERVATIONS DURING SHIPPING, 2024

Date	Time	Latitude	Longitude	Species Group (Bird or Mammal)	Species	Number Observed	Behaviour	Initial Distance from Vessel (m)	Mitigation Action?	Ship Strike?	Notes
27-Aug-24	5:10	62.1025	-62.783611	Seabird	Herring Gull	2	Drifting with the wind	30	No	-	-
28-Aug-24	8:21	67.300556	-61.552222	Seabird	Iceland gull	2	Spinning around ships tail	100	No	-	2 white spots on wings
28-Aug-24	8:21	67.300556	-61.552222	Seabird	Northern fulmar	2	Spinning around ships tail	100	No	-	Dark grey
29-Aug-24	5:00	70.901111	-68.268889	Seabird	Northern fulmar	4	Drifting with the wind	50	No	-	passing above the ship
31-Aug-24	8:50	71.918333	-95.535	Seabird	Iceland gull	4	Flight/rafting	100	No	-	flying out above water/swimming in the big pool
31-Aug-24	8:50	71.918333	-95.535	Seabird	Glaucous gull	1	Flight	150	No	-	Flying towards land
31-Aug-24	8:50	71.918333	-95.535	Seabird	Iceland gull	2	Flight	50	No	-	flying around the ship.
01-Sep-24	9:08	68.925278	-104.752222	Seabird	Iceland gull	2	Voyage flight	200	No	-	travelling lazily in pair of 2
02-Aug-24	5:15	68.266667	-108.916667	Seabird	Thick-billed murre	1	Voyage flight	300	No	-	Flying about 75m form the ground with the precise destina
05-Sep-24	5:45	66.674167	-107.633333	Seabird	Glaucous gull	1	Flying near land	500	No	-	Certitude is not 100% as it wa from from the ship
05-Sep-24	5:45	66.674167	-107.633333	Seabird	Northern fulmar	1	Floating peacefully	250	No	-	-
10-Sep-24	8:12	69.5	-106.418611	Seabird	Canada goose	15	Voyage flight	500	-	-	flying 300 m above water
10-Sep-24	8:12	69.5	-106.418611	Seabird	Iceland gull	12	Enjoyment flight	300	-	-	flying 50m aboce water, non linear
11-Sep-24	8:00	71.833333	-96	Seabird	Herring gull	1	Voyage flight	150	No	-	flying 100m above water
11-Sep-24	8:00	71.833333	-96	Seabird	Northern fulmar	4	drifitng with wind	100	No	-	flying 75m above water
12-Sep-24	8:02	73.867778	-82.183611	Seabird	Herring gull	1	Playing with waves	150	No	-	-
12-Sep-24	8:02	73.867778	-82.183611	Seabird	Iceland gull	1	Travel flight	200	No	-	-
12-Sep-24	8:02	73.867778	-82.183611	Seabird	Unknown gull	1	Travel flight	300	No	-	White body, brown wings
13-Sep-24	8:05	70.887222	-68.551667	Seabird	Herring gull	2	Flying close to water	100	No	-	-
13-Sep-24	8:05	70.887222	-68.551667	Seabird	Black-legged kittiwake	3	Rafting in the wind	75	No	-	-
13-Sep-24	8:05	70.887222	-68.551667	Seabird	Unknown gull	12	Playing in the wind	300-500	No	-	foggy weather made it difficult to identify species
14-Sep-24	5:04	65.95	-61.350833	Seabird	Black-legged kittiwake	5	Fishing	200	No	-	making circles close to the water
14-Sep-24	5:04	65.95	-61.350833	Seabird	Herring gull	3	Rafting	30	No	-	rafting alongside the ship above water level
14-Sep-24	5:04	65.95	-61.350833	Seabird	Red-necked phalarope	1	Voyageing	100	No	-	-
14-Sep-24	5:04	65.95	-61.350833	Seabird	Iceland gull	4	Travelling	75	No	-	passing over the vessel
15-Sep-24	7:55	61.366667	-63.367222	Seabird	Herring gull	6	Fishing	100	No	-	-
15-Sep-24	7:55	61.366667	-63.367222	Seabird	Herring gull	1	Rafting	25	No	-	drifting alongside ship
12-Aug-24	14:51	61.33	-57.1	Seabird	Herring gull	15+	Following ship	30	No	-	too many birds of both species to tell how many of both kinds
12-Aug-24	14:51	61.33	-57.1	Seabird	Northern fulmar	15+	Following ship	30	No	-	too many birds of both species to tell how many of both kinds
13-Aug-24	6:15	65.1	-59.7	Seabird	Northern fulmar	2	Flight	50	No	-	spoted again
13-Aug-24	6:15	65.1	-59.7	Seabird	Herring gull	6	Following ship	60	No	-	spoted again
14-Aug-24	16:34	71.5	-69.1	Seabird	Northern fulmar	8	Following ship	10-100	No	-	-
14-Aug-24	16:34	71.5	-69.1	Seabird	Razorbill	2	Travel	50	No	-	-
15-Aug-24	6:15	73.6	-77.1	Seabird	Iceland gull	1	Following ship	150	No	-	-
15-Aug-24	6:15	73.6	-77.1	Seabird	Herring gull	2	Travel	200	No	-	-
15-Aug-24	6:15	73.6	-77.1	Seabird	Northern fulmar	1	Travel	75	No	-	-
15-Aug-24	6:15	73.6	-77.1	Seabird	Razorbill	2	Flight, rafting	150	No	-	-
17-Aug-24	6:15	69.4	-100.2	Seabird	Iceland gull	2	Following ship	200	No	-	-
17-Aug-24	6:15	69.4	-100.2	Seabird	Atlantic puffin	20+	Travelling	230	No	-	-
17-Aug-24	6:15	69.4	-100.2	Seabird	Thick-billed murre	1	Rafting	220	No	-	-
17-Aug-24	6:15	69.4	-100.2	Seabird	Glaucous gull	26	following ship	230	No	-	-
17-Aug-24	6:15	69.4	-100.2	Seabird	Black guillemot	4	Group flight	220	No	-	-
27-Aug-24	15:52	73.4	-89	Seabird	Northern fulmar	1	Travelling	20	-	-	-
27-Aug-24	15:52	73.4	-89	Seabird	Herring gull	6	Rafting	50	-	-	-
28-Aug-24	3:00	73.91	-81.2	Seabird	Herring gull	2	Following ship	110	No	-	-
27-Aug-24	15:00	67.7	-62.4	Seabird	Northern fulmar	5	Following vessel	50	No	-	-
30-Aug-24	3:00	65.4	-60.2	Seabird	Iceland gull	3	Following ship	210	No	-	-

APPENDIX R: MARINE MAMMAL AND SEABIRD OBSERVATIONS DURING SHIPPING, 2024

Date	Time	Latitude	Longitude	Species Group (Bird or Mammal)	Species	Number Observed	Behaviour	Initial Distance from Vessel (m)	Mitigation Action?	Ship Strike?	Notes
15-Sep-24	6:00	61	-58.4	Seabird	Glaucous gull	3	Rafting	90	No	-	-
17-Sep-24	5:20	71.7	-71.2	Seabird	Northern fulmar	2	following ship	110	No	-	-
17-Sep-24	5:20	71.7	-71.2	Seabird	Iceland gull	13	Feeding	60	No	-	-
17-Sep-24	5:20	71.7	-71.2	Seabird	Herring gull	15	Feeding	50	No	-	-
18-Sep-24	6:00	69.9	-98.8	Seabird	Herring gull	2	Rafting	100	No	-	-
25-Sep-24	6:00	71.2	-97.4	Seabird	Black guillemot	1	Rafting in the wind	150	No	-	-
25-Sep-24	0.25	71.2	-97.4	Seabird	Unknown bird	2	Travelling	80	No	-	-
24-Sep-24	17:47	72.533321	-73.683325	Marine mammal	Ringed seal	2	Swimming	10	No	No	-
1-Oct-24	17:00	68.833321	-62.284445	Marine mammal	Whale	1	Swimming, diving	50	No	No	-
28-Aug-24	16:15	68.699988	-63.766667	Marine mammal	Northern bottlenosed-whale	4	swimming, blowing	350	-	No	-
31-Aug-24	9:22	71.85249	-95.834979	Marine mammal	Harbour Propoise	10	swimming, blowing	150	No	No	-
15-Aug-24	21:34	73.784156	-87.518038	Marine mammal	Bowhead whale	1	Diving, blowing	-	No	-	-
9-Sep-24	11:20	66.897214	-107.79484	Marine mammal	Beared seal	1	-	-	-	-	-
30-Aug-24	-	64.299438	-59.140561	Marine mammal	Killer whale	2	-	600	-	-	-
12-Sep-24	11:53	68.7	-103.305	Seabird	Black-legged kittiwake	1	flying	25	-	No	-
12-Sep-24	8:32	68.9867	-101.6483	Seabird	Parasitic jaeger	2	flying	50	No	No	-
12-Sep-24	10:00	68.795	-102.2583	Seabird	Tundra swan	2	flying	100	No	No	-
12-Sep-24	10:12	68.765	-102.345	Seabird	Gaucous gull	1	flying	50	-	No	-
12-Sep-24	10:05	68.7817	-102.2933	Seabird	Northern fulmar	1	flying	200	-	No	-
12-Sep-24	11:10	68.7133	-102.7667	Seabird	Black-legged kittiwake	1	flying	50	-	No	-
24-Sep-24	19:27	74.324	-89.1825	Seabird	Arctic tern	2	flying	10	No	No	-
24-Sep-24	16:25	72.7833	-74.4167	Seabird	Pomarine Jaeger	2	flying	10	No	No	-
25-Sep-24	5:55	70.75	-67.25	Seabird	Unknown bird	3	flying	40	No	-	-
22-Aug-24	1:15	70.6	-67.4617	Seabird	Northern fulmar	2	flying	1	No	No	-
22-Aug-24	4:05	71.0133	-67.74	Seabird	Northern fulmar	4	flying	1	No	No	-
22-Aug-24	16:00	72.7067	-73.4217	Seabird	Northern fulmar	-	flying	over ship	No	No	-
23-Aug-24	3:58	73.86	-80.4633	Seabird	Northern fulmar	1	flying	over ship	No	No	-
23-Aug-24	4:14	73.8617	-80.6333	Seabird	Thick billed murre	7-8	flying	400	No	No	-
23-Aug-24	13:21	73.9483	-87.3667	Seabird	Thick billed murre	4	flying/resting on ocean surface	80	No	No	-
24-Aug-24	0:00	72.5283	-92.1067	Seabird	Northern fulmar	1	f	5	No	No	-
24-Aug-24	8:42	71.93	-94.22	Seabird	Northern fulmar	1	flying	10	No	No	-
25-Aug-24	15:33	68.9983	-107.4317	Seabird	Canada goose	80-100	Escape ship -flying, resting on ocean surface	450	No	No	-
27-Sep-24	16:34	71.64	-96.625	Seabird	Northern fulmar	2	flying	20	No	No	-
9/28/2024	8:45	73.9067	-95.7733	Seabird	Ross's gull	2	flying	-	No	No	-
9/28/2024	8:45	73.9067	-95.7733	Seabird	Snowbunting or Arctic redpoll	1	flying	on ship	-	No	-
9/16/2024	6:01	63.3317	-59.3	Seabird	Merlin	1	-	-	No	No	-
9/13/2024	12:05	70.24	-66.5967	Seabird	Black-legged kittiwake	25	Flying	300	No	No	-

Note: '-' denotes where no details were recorded in the datasheet.

APPENDIX S WILDLIFE INCIDENT REPORTS, 2024

APPENDIX S: WILDLIFE INCIDENT REPORTS, 2024

Date	Location	Wildlife Species	# of Individuals	Description of Wildlife Activity	Type of Deterrent	Effectiveness of Deterrent	Outcome	Communications to Outside Departments
2/9/2024	Goose Lake-Haul road	Wolf	1	Walking along main haul road	Truck horn and bear banger	Effective	Wolf ran away.	-
2/17/2024	Goose Lake Main	Wolverine	1	Under kitchen Loading Dock	Jumping up and down on	Effective	Wolverine left scene.	-
2/17/2024	Goose Lake Main	Wolverine	1	Under kitchen Loading Dock	Bear banger	Effective	Wolverine left scene, food waste move indoors.	-
3/14/2024	Goose Lake Exploration	Wolverine	1	On Goose Lake	Bear banger	Effective	Back door to Exp. Kitchen was improved by Site Services March 13 to prevent any wildlife from being able to enter.	-
3/18/2024	Goose Lake Diversion Berm Road	Wolf	1	Walking along main haul road	Truck horn and bear banger	Effective	Wolf observed running to the SW	-
4/9/2024	Old Camp Incinerator	Wolverine	2	Walking on Goose lake towards incinerator	Bear banger	Effective	Wolverines ran away.	-
4/10/2024	Old Camp Incinerator	Wolverine	1	Wolverine approached incinerator area	Rubber bullet and bear	Effective	Wolverine left scene.	-
4/11/2024	Old Camp Incinerator	Wolverine	1	Approaching Incinerator	Air horn and bear banger	Effective	Wolverine ran away.	-
4/11/2024	Old Camp Incinerator	Wolverine	1	Approaching Incinerator	Rubber bullet and bear	Effective	Wolverine ran away.	-
4/24/2024	Lower Camp	Wolverine	1	Approaching Incinerator	Bear banger	Effective	Wolverine moved further South	-
4/29/2024	Incinerator	Wolverine	1	Wolverine behind Drums.	Bear banger	Effective	From Incinerator log. No additional details given.	-
5/18/2024	Goose Lake	Grizzly Bear	1	Approaching Exploration Camp	Five bear bangers and helicopter	Effective	Bear vacated immediate vicinity of Goose Lake once helicopter was deployed	-
6/6/2024	Goose Lake	Wolf	1	Approaching WSP Field crew by Rascal	One bear banger and helicopter	Effective	Hovered and watched the wolf continue to run to the SE	-
6/21/2024	Goose Lake - Exploration side	Grizzly Bear	1	North side of Goose lake heading toward incinerator	Helicopter	Effective	Hovered and watched the grizzly - greater than 3km from exploration	-
6/21/2024	Incinerator - Exploration	Grizzly Bear	1	Grizzly at incinerator area rubbing on thermistor field box	Helicopter	Effective	Hovered for 20 minutes pushing bear further away	-
6/23/2024	Incinerator & New Landfill	Grey Wolf	1	Grey wolf observed near Goose Lake by incinerator then observed to take a wide lap east of incinerator towards echo pit	Bear banger	Effective	Wolf ran away eastward.	-
6/27/2024	WIR	Grey Wolf	1	Wolf predatory encounter	Helicopter	Effective	Wolf reluctantly moved on.	-
7/1/2024	Goose Airstrip	Caribou	1	Was seen walking, eating, then laying down to rest. No collar. MS: Likely same caribou as by major shop. Resident seen in area frequently.	Yelling, waving sticks	Effective	Caribou moved roughly 200m and resumed eating and resting.	-
7/2/2024	Goose Airstrip	Caribou	1	Grazing near major laydown, no collar.	Yelling, waving sticks	Effective	Caribou moved a little bit (~50 ft) and resumed grazing.	-
7/4/2024	Goose Airstrip	Caribou	1	Grazing and heading towards airstrip. No collar	Yelling, waving sticks, bear banger x2	Effective	Animal ran ~50m then stopped and continued grazing. Loud noises, machinery, planes, and helicopter have no effect on its behaviour. Very comfortable.	-
8/1/2024	BB13	Caribou	1	Territorial	Bear banger x 2	Effective	Left area. Everyone Safe	-
8/1/2024	Goose	Grizzly Bear	1	No issues, Heli encountered it to depart.	Helicopter	Effective	-	-
9/16/2024	Goose Main Camp	Wolf	1	Walking down haul road, timid and ran from trucks. Wolf ran away down berm towards goose lake and kept running into the tundra towards llama. Returned at 4am Sep 17 behind camp, ran down berm and ran nw into the tundra went out of sight.	Vehicle	Effective	wolf ran into tundra away from site. Ran when it saw pickup. Returned to behind camp near generators.	-
10/1/2024	Goose Main Camp	Grizzly bear	4	West side of camp behind the mine dry. Walking, began digging a den. Mother and 3 large cubs	Bear bangers (x2)	Effective	deterred the bear from digging and pushed the four bears farther away from camp moving NW away from all camp activities.	-
10/2/2024	West of Camp (by annex/mine dry)	Grizzly Bear	4	Sow grizzly and three cubs walking along esker ridges near west of camp (~120 m)	Bear banger	Effective	Grizzlies and cubs took off to the west and did not return.	-
10/7/2024	West of Camp (by annex/mine dry)	Grey Wolf	1	Wolf ~ 50 m from edge of camp pad walking around camp	Bear banger	Effective	Wolf ran away.	-
11/10/2024	Goose Lake - New Emulsion Plant	Grey Wolf	1	Wolf travelling east along the new emulsion road and continued past the emulsion plant	Bear banger	Effective	Wolf ran away.	-

APPENDIX S: WILDLIFE INCIDENT REPORTS, 2024

Date	Location	Wildlife Species	# of Individuals	Description of Wildlife Activity	Type of Deterrent	Effectiveness of Deterrent	Outcome	Communications to Outside Departments
11/12/2025	Goose	Grey Wolf	1	Wolf was displaying atypical behaviour, laying, down, rolling over, unsteady balance, staggering, mouth gaping, fatigued. Wolf looked malnourish and sickly.	Rocks, truck	Ineffective	Animal was dispatched after consulting Government of Nunavut Carnivore Wildlife Biologist.	KIA, Government of Nunavut Department of Environment
12/9/2024	Goose Road Machine Pad	Hare	1	Dead beside haul road.	-	-	Removed body and brought to Incinerator	-
11-Sep-24	Goose Main Camp Roof	Ptarmigan	1	Found dead ontop of roof. Likely dropped by a predatory bird and abandoned body.	-	-	Removed Body and was taken to the incinerator	-

Note: '-' denotes where no details were recorded in the datasheet.



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