Appendix G13

2017 Widlife Monitoring Summary Report

MEADOWBANK MINE

2017 WILDLIFE MONITORING SUMMARY REPORT

FINAL

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SECTION 1 • EXECUTIVE SUMMARY

As a requirement of the NIRB Project Certificate, the 2017 Wildlife Monitoring Summary Report represents the 12th of a series of annual Wildlife Monitoring Summary Reports for the Agnico Eagle Mines Ltd. (Agnico Eagle) Meadowbank Mine (the project). Baseline and monitoring programs were first initiated in 1999 and will continue throughout the life of the mine. Details of the wildlife monitoring program for the project are provided in the Terrestrial Ecosystem Management Plan (Cumberland 2006). The 2017 report provides the objectives, methodology, historical and current year results, and management recommendations for each monitoring program. The 2017 Wildlife Monitoring Summary Report builds on data presented in previous reports and incorporates monitoring recommendations from these reports.

A habitat analysis was completed for the first time since 2014. The Vault Pit is now fully operational and expanded into Phaser Lake. The habitat analysis assesses the overall area of different Ecological Land Classification (ELC) units lost due to mine development, based on GIS analysis; no additional ground investigations were completed in 2017. Habitat loss for the mine site (based on all approved mine development plans) was predicted to be 867 ha; however, actual habitat loss for the mine site is 1,027 ha. The loss of High suitability habitat for the mine site was greater than predicted (i.e., beyond thresholds) for ungulates (growing and winter season), small mammals, and other breeding birds, while construction of the AWAR required considerably less area and habitat loss than predicted. The overall net loss for the project to date, combining the mine site and AWAR together, is 4% above predicted total habitat loss (i.e., 46 ha greater than predicted and approved).

Nine active Peregrine Falcon (*Falco peregrinus*) nests were observed and monitored at quarry sites along the AWAR in 2017, with successful nesting confirmed at six nests. Falcon activity at Vault Pit was successfully deterred, and a Common Raven (*Corvus corax*) nest was removed from the Baker Lake Tank Farm under a Government of Nunavut (GN) exemption permit. Raptor nest management plans were not warranted at any of the active nest sites as no project-related effects on raptor nesting success were observed.

The GN Caribou (*Rangifer tarandus*) collaring program, ongoing for the past 10 years in the Baker Lake area, continued in 2017 with monitoring of existing collared animals. Seasonal Caribou movements within and adjacent to the Meadowbank Regional Study Area (RSA) were tracked and mapped throughout the year. Collared Caribou were present predominantly during the 2017 fall rut, with some minor presence in late summer, fall, and early winter. No collared Caribou moved around or across the Meadowbank RSA during spring migration, but collared Caribou moved across the AWAR during fall migration. No additional collars were deployed for Baker Lake animals in 2017 and by the end of the year, only 11 collars remained active.

A Hunter Harvest Study (HHS) was conducted from 2009 to 2015, but the program was suspended following declining participation and difficulty in interpreting limited hunting data. In 2017, stakeholders met and agreed to participate in the HHS committee. Kick-off meetings and information sessions were completed, and a fully integrated HHS is proposed to be underway by the end of the second quarter of 2018.

Road closures were implemented from late October to early November to ensure safe passage to migrating Caribou herds. No Caribou fatalities occurred because of activities at the mine or along the AWAR in 2017. One Wolverine (*Gulo gulo*) was killed at the mine site along the Vault ring road. Actions taken to improve prevention practices after this incident included employee consequences and reiteration of mine site wildlife protocols with all staff. With the Authorization of the GN officer, two Wolves (*Canis lupus*) were euthanized after attempts to deter the animals were unsuccessful. In general, improved food-handling practices and employee awareness programs at the mine site have helped prevent mine-related fatalities.

SECTION 2 • OVERVIEW

2.1 BACKGROUND

The Agnico Eagle Mines Ltd. (Agnico Eagle) Meadowbank Mine (the project), located in the Kivalliq Region of Nunavut (**Figure 2.1**), received a Project Certificate from the Nunavut Impact Review Board (NIRB) in 2006. The subsequent Water License, GN and AANDC Land Lease, and KIA Land Use Production Lease, allowed for the construction of a gold mine and ancillary facilities including an All-Weather Access Road (AWAR), barge unloading facilities, lay-down area, and a fuel tank farm near the Hamlet of Baker Lake.

The 2017 annual report is the 12th of a series of annual Wildlife Monitoring Summary Reports for the project. The purpose of this report is to summarize the 2017 data collected from the wildlife monitoring programs, and to describe natural variation and potential mine-related changes in wildlife populations within and adjacent to the Meadowbank Gold Mine (the mine). The 2017 report describes monitoring objectives and methodology, historical and current year results, mitigation activities, and management recommendations based on 2017 monitoring results.

2.2 PROJECT DESCRIPTION

The Meadowbank Gold Mine, with an expected operating life of about nine (9) years (or until Q3 2018), is located approximately 70 km north of the Hamlet of Baker Lake and 300 km inland from the northwest coast of Hudson Bay.

The scope of the Terrestrial Ecosystem Management Plan (TEMP) is to report on monitoring of the mine during construction, operation, maintenance, reclamation, and closure. This report includes data collected in 2017, the eighth year of operation. Construction of a 106.8 km AWAR between the Hamlet of Baker Lake, the nearest community, and the mine was completed in March 2008 and provides mine site access and re-supply, while on-site mine haul and access roads connect open pit areas to ancillary facilities. Mine site facilities include a mill, power plant, maintenance facilities, tank farm for fuel storage, water treatment plant, sewage treatment plant, airstrip, and accommodations. Mine components include open pits, waste rock storage facilities, and a tailings storage facility.

Environmental baseline studies were conducted in the project area prior to mine approval and integrated into the current project design according to the 2006 TEMP. Wildlife Valued Ecosystem Components (VECs), which were identified in consultation with regulatory agencies and residents of Baker Lake, include vegetation cover (wildlife habitat), ungulates, predatory mammals, small mammals, raptors, waterbirds, and other breeding birds. Further details on the proposed project can be found in the Final Environmental Impact Statement (FEIS 2005).


Figure 2.1:
Project Location Map
Legend
Capital City
Towns/Villages
Rivers
Water
National Parks
Data Sources:
Natural Resources Canada
Geological Survey of Canada
Caslys Consulting Ltd.
160°W
140°W
120°W
100°W
80°W
60°W
40°W
20°W
80°N
70°N
60°N
Alert
Ellesmere Island Nat. Park
CANADA
Ellesmere Island
Arctic Ocean
Grise Fiord
Resolute
Baffin Bay
Pond Inlet
Arctic Bay
Victoria Island
NUNAVUT
Clyde River
Davis Strait
Qikiqtarjuaq (Broughton Island)
Baffin Island
Auyuittuq Nat. Park
Igloolik
Hall Beach
Kugluktuk (Coppermine)
Cambridge Bay
Taloyoak
Pangnirtung
Umingmaktok
Gjoa Haven
Kugaaruk
Foxe Basin
Bathurst Inlet
Repulse Bay
Meadowbank Gold Project
IQALUIT
Cape Dorset
Kimmirut (Lake Harbour)
Coral Harbour
Hudson Strait
Baker Lake
Northwest Territories
Chesterfield Inlet
Rankin Inlet
Whale Cove
Arviat
Quebec
Alberta
Saskatchewan
Hudson Bay
Manitoba
Churchill
Ontario
0
250
500
Kilometres
Prepared for:
AGNICO EAGLE
By:
CASLYS CONSULTING

In 2008, construction of the AWAR and numerous camp infrastructure facilities were completed, while in 2009, principal mine site construction commenced. Mine operation commenced in early 2010. Goose Pit was completely depleted in 2014 while Agnico Eagle continued ongoing mining operations at Portage and Vault pits and investigated expansion of the Vault area into Phaser Lake. Dewatering activities were completed on Phaser Lake in 2016. Phaser Pit pre-stripping began in the second quarter of 2017, with mining starting in November 2017.

2.3 STUDY AREA BOUNDARIES

The mine site Local Study Area (LSA) includes a 5 km radius area centred on the Main Site and a 5 km radius around the Vault Site creating an elliptical shape with a total area of 194 km^2 (**Figure 2.2**). The Regional Study Area (RSA) encompasses an area that includes a 25 km radius area around the Main Site and a 50 km wide corridor centred on the AWAR for a total area of 5,106 km^2 (**Figure 2.2**). The AWAR LSA consists of a 3 km wide corridor centred on the AWAR between Baker Lake and Meadowbank mine site (**Figure 2.2**). Justification for study area size can be found in previous wildlife monitoring summary reports.

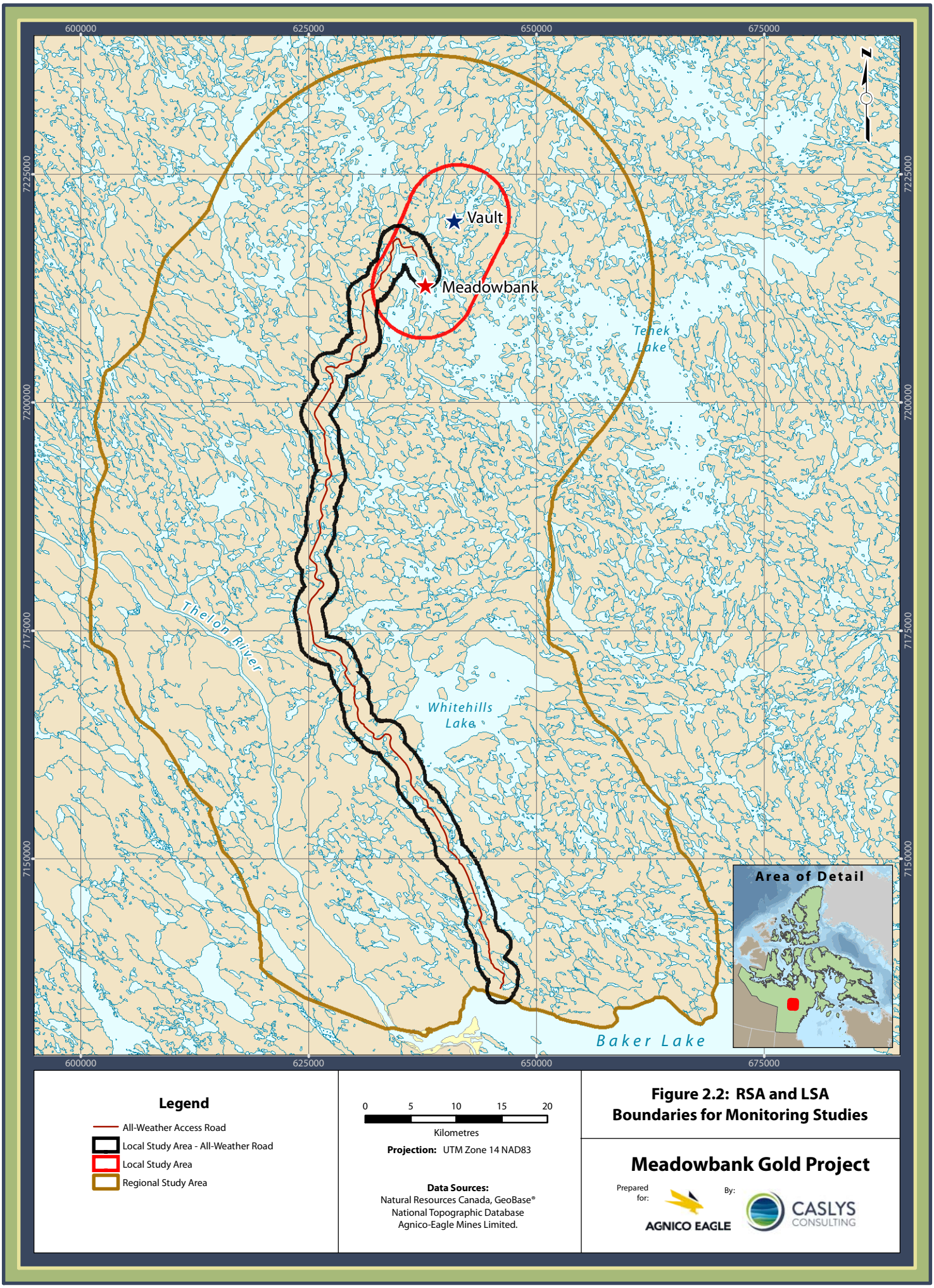
2.4 MONITORING APPROACH – LSA AND RSA

Wildlife monitoring is an essential tool in protecting and maintaining wildlife occurring near the project. A comprehensive monitoring strategy has been implemented and, as required, is adapted to meet the objectives of the management strategy set out in the TEMP (Cumberland 2006). Monitoring programs evaluate the effectiveness of mitigation measures and assess mine-related impact predictions. For all wildlife monitoring programs there is a certain level of uncertainty or unpredictability; therefore, residual effects identified during monitoring may require implementation of adaptive management strategies.

To effectively evaluate the accuracy of impact predictions, a series of quantitative monitoring indicators, which are within the broad categories of habitat distribution, wildlife distribution, wildlife richness, wildlife diversity, wildlife abundance, and environmental health, have been developed. These indicators have been described in detail in earlier annual reports.

2.5 MONITORING APPROACH – MINE SITE

Environmental staff monitor wildlife near mine facilities and along the AWAR and Vault and Phaser Pits Haul Road on a regular basis (discussed in detail in **Sections 6** and **7**). Where unacceptable risks to wildlife are observed, mitigation measures are implemented to avert animals from site activities in accordance with the TEMP (Cumberland 2006). Detailed reporting protocols (e.g., a dangerous animal occurrence, monthly wildlife reports submitted to the GN, road closure notification to GN, KIA, HTO, etc.) are established and implemented by on-site environmental staff. During these events, Agnico Eagle representatives communicate any issues directly with the GN Department of Environment (DoE) Conservation Officer, KIA, and the local HTO.


600000
625000
650000
675000
7225000
7200000
7175000
7150000
Vault
Meadowbank
Tehek Lake
Thelon River
Whitehills Lake
Baker Lake
Area of Detail
Legend
All-Weather Access Road
Local Study Area - All-Weather Road
Local Study Area
Regional Study Area
0 5 10 15 20
Kilometres
Projection: UTM Zone 14 NAD83
Data Sources:
Natural Resources Canada, GeoBase®
National Topographic Database
Agnico-Eagle Mines Limited.
Figure 2.2: RSA and LSA Boundaries for Monitoring Studies
Meadowbank Gold Project
Prepared for:
AGNICO EAGLE
By:
CASLYS CONSULTING

2.6 REPORT OBJECTIVES

The primary objectives of the 2017 Wildlife Monitoring Summary Report include:

- Reporting the results of the 2017 wildlife monitoring programs;
- Summarizing the monitoring strategy implemented over the course of the year;
- Evaluating the function and validity of implemented monitoring strategies;
- Summarizing adaptive management strategies;
- Providing management recommendations for 2018; and
- Allowing regulators to contribute advice for improving wildlife management.

2.7 INUIT INVOLVEMENT

Since 1999, local Inuit from the Hamlet of Baker Lake have been involved in all wildlife-related baseline and monitoring surveys. A summary of the various programs and the average number of Inuit involved since 1999 is provided in **Table 2.1**. As required by the IIBA, "Anything done by Agnico in order to implement the TEMP […] shall incorporate Inuit Qaujimanituqaugit"; therefore, traditional knowledge or IQ has been incorporated in this annual report.

Table 2.1: Inuit Involvement in Baseline and Monitoring Programs for the Meadowbank Mine.

Survey Description	Years Conducted (# of Years)	Average # of Inuit Involved
RSA Aerial Survey	1999, 2002 to 2008 (8) – discontinued	2
LSA Aerial Survey	1999, 2002 to 2008 (8) – discontinued	2
Breeding Bird Plots	2003 to 2012; 2015 (11)	2 to 3
Breeding Bird Transects	2005 to 2011; 2015 (8)	2
Waterfowl Nest Surveys	2004 to 2012 (9) - discontinued	3
Raptor Nest Surveys	2004 to 2007, 2010 to 2017 (12)	3 to 4
AWAR Ground Surveys	2004 to 2017 (14)	3 to 4
Habitat Mapping	2004 to 2005, 2010, 2012, 2014, 2017-analysis only (6)	1 to 2
Phenology Plots	2003 to 2005 (3) - discontinued	2

SECTION 3 • HABITAT MAPPING

3.1 OVERVIEW

The habitat mapping monitoring program was developed to describe the overall area of different Ecological Land Classification (ELC) units lost due to mine-related activities (i.e., during construction, operation, decommissioning, and post-closure phases) at three primary locations: Main and Vault sites (which together encompass the mine site), and the AWAR.

3.2 OBJECTIVE

The primary objective of the habitat mapping monitoring program is to confirm that estimated habitat losses associated with mine site and AWAR construction, including any approved extensions, have not exceeded the threshold limits identified in the TEMP (Cumberland 2006). A summary of each monitoring parameter, estimated losses, and thresholds is included in **Table 3.1**.

Table 3.1: Habitat Mapping Monitoring Parameters, Estimated Footprint Losses, and Thresholds

Monitoring Parameter	Mine Site Estimated Loss	AWAR Estimated Loss	Threshold
Terrestrial Habitat	867 ha	281 ha	>5% Predicted
Ungulate – High Suitability Habitat	240 ha (growing season) 191 ha (winter season)	63 ha (growing season) 188 ha (winter season)	>10% Predicted
Small Mammals – High Suitability Habitat	178 ha	156 ha	>10% Predicted
Waterbirds – High Suitability Habitat	518 ha	22 ha	>10% Predicted
Breeding Birds – High Suitability Habitat	322 ha	170 ha	>10% Predicted

3.3 DURATION

The total area of habitat disturbance associated with mine site and ancillary facility construction was mapped following significant construction completion (2010) and was to be mapped annually during the operation phase as detailed in the TEMP (Cumberland 2006). At the end of 2010, a detailed ELC habitat loss analysis found that actual habitat losses to date were substantially lower than predicted and that no habitat loss thresholds for VECs were exceeded (AEM 2011). Given this outcome, another detailed ELC habitat loss analysis was not provided until the 2012 report, which had similar conclusions as those in 2010. The next and most recent analysis was provided in the 2014 report. Surveys of all mine site changes and ancillary facilities are completed as they are constructed or if any changes are made. The current habitat mapping monitoring program is intended to be completed a minimum of every three years.

Following decommissioning, vegetation mapping will be conducted in the first two years post-closure and every three years thereafter until Year 11 post-closure to verify that thresholds have been met.

3.4 METHODOLOGY

The calculation of impacted ELC units is based on Agnico Eagle as-built mine and road construction drawings and reports, aerial photographs and satellite imagery, and ground investigations. Newly disturbed areas are delineated using Global Positioning System (GPS) and Geographic Information System (GIS) mapping. Note that ground investigations were not conducted as part of the 2017 analysis. Results are compared to baseline conditions (i.e., ELC from supervised classification conducted in 2005; refer to Cumberland 2006) and losses predicted in the 2005 EIS plus approved extensions (**Table 3.1**). Note that approved extensions to Phaser Lake were not available for this report and are therefore not included in the overall calculations.

3.5 HISTORICAL RESULTS

3.5.1 Mine Site

In 2014, most of the Main Site construction was complete, including most of the infrastructure for the Vault Pit area, although much of the pit and waste rock storage area had not yet been disturbed (**Figure 3.1**). ELC results for the mine site footprint, based on as-built drawings from 2014, were compared to predicted ELC unit losses from the 2005 EIS, plus approved extensions. Actual habitat loss for the mine site in 2014 was calculated to be 775.7 ha, which was 91.1 ha less than the predicted total habitat loss of 866.8 ha for the mine site. Differences between predicted and actual habitat losses were greatest in Heath Tundra, Birch and Riparian Shrub, and Lichen ELC units, all of which are High suitability habitat for ungulates during the winter season.

Although no thresholds (>5 to 10% above predicted losses) for the loss of High suitability habitat were exceeded for any VECs, threshold levels for the mine site were almost reached in 2014. Consequently, commitments were made to remove the material stored in the NPAG extension area (which was approved by NWB) and use it for capping of the North Cell Tailings Storage Facility during the closure/reclamation phase of the mine. High suitability habitat in the NPAG extension area will again be available for use by ungulates following restoration.

3.5.2 AWAR

The ELC results for the AWAR had not changed since the 2010 analysis, and habitat loss analyses were not required. The 2010 ELC results for the AWAR were compared to ELC unit losses predicted in the 2005 EIS report. Construction of the AWAR required considerably less area (173 ha) than predicted in the 2005 EIS (281 ha) and for each ELC unit, actual habitat losses were less than predicted. ELC habitat loss values for the AWAR in 2010 were compared to predicted High suitability habitat losses for ungulates (growing and winter season), waterbirds, other breeding birds and small mammals. In all cases, the actual High suitability habitat losses were significantly less than predicted losses and no thresholds (i.e., >5 to 10% above predicted losses) were exceeded.

3.6 2017 RESULTS

3.6.1 Mine Site

A habitat loss analysis is required to be completed every three years at a minimum. The mine development footprint has changed since the most recent habitat loss analysis was completed in 2014. The Vault Pit is now fully operational and has expanded into the Phaser Lake area. The Phaser Lake extension was completed with approval from the NIRB and the Nunavut Water Board (NWB); however, the size of the extension area was not available for habitat calculations in this report. All areas being used by Meadowbank Mine have been accepted and approved by regulators and the KIA. Annual reports and updated management plans have been submitted and accepted by these regulatory bodies.

The 2017 ELC results for the mine site footprint were compared to predicted ELC unit losses from the 2005 EIS plus approved extensions (minus Phaser Lake extension; see **Table 3.2**), which estimated the total approved habitat loss for the mine site to be 867 ha (see 2014 annual report). Habitat loss for the mine site is currently 1,027 ha. Predicted habitat loss (cross-hatched area), the 2014 habitat loss analysis (green area), and the current 2017 habitat loss analysis (red area) are compared in **Figure 3.1**. The difference between predicted and actual habitat losses is primarily attributable to the final extent of the Vault waste dump, the Phaser Lake extension of the Vault Pit area (i.e., not included in the 867 ha calculation), and the as-built layout of the NPAG expansion of the Portage Waste Rock Facility. As discussed, the material stored in the NPAG expansion area will be utilized during the closure/reclamation phase for capping of the North Cell TSF and will be returned as habitat.

Calculated individual ELC unit loss was above estimated losses for all ELC units, except water (**Table 3.2**). Differences between predicted and actual habitat losses were greatest for the Sedge (i.e., 41.4 ha or 27.3% more than predicted), and Birch and Riparian Shrub (i.e., 36.8 ha or 41.8% more than predicted) ELC units. Both ELC units are High suitability habitat for ungulates during the winter season. Greater than 10% differences between predicted and actual habitat losses were also observed in Heath Tundra, Lichen, Lichen-Rock, and Rock and Boulder ELC units.

Mine site ELC loss values for 2017 were compared to predicted losses of High suitability habitat for ungulates (growing and winter season), small mammals, waterbirds, and other breeding birds (**Table 3.3**). Thresholds (>5 to 10% above predicted losses) have been exceeded for all the VECs except waterbirds. Note that even if the approved Phaser Lake extension was included in the analysis, actual losses are still likely to exceed these thresholds.

3.6.2 AWAR

The ELC results for the AWAR have not changed since the 2010 analysis. Construction of the AWAR required considerably less area (173 ha) than predicted in the 2005 EIS (281 ha). Losses of High suitability habitat were significantly less than predicted, and no thresholds (i.e., >10% above predicted losses) were exceeded. Subsequent analyses will not be conducted unless significant changes to the current road width and alignment occur.

Table 3.2: Mine Site Footprint ELC Unit Totals – 2005 EIS Predictions Plus Approved Extensions, 2017 ELC Results, and Respective Differences

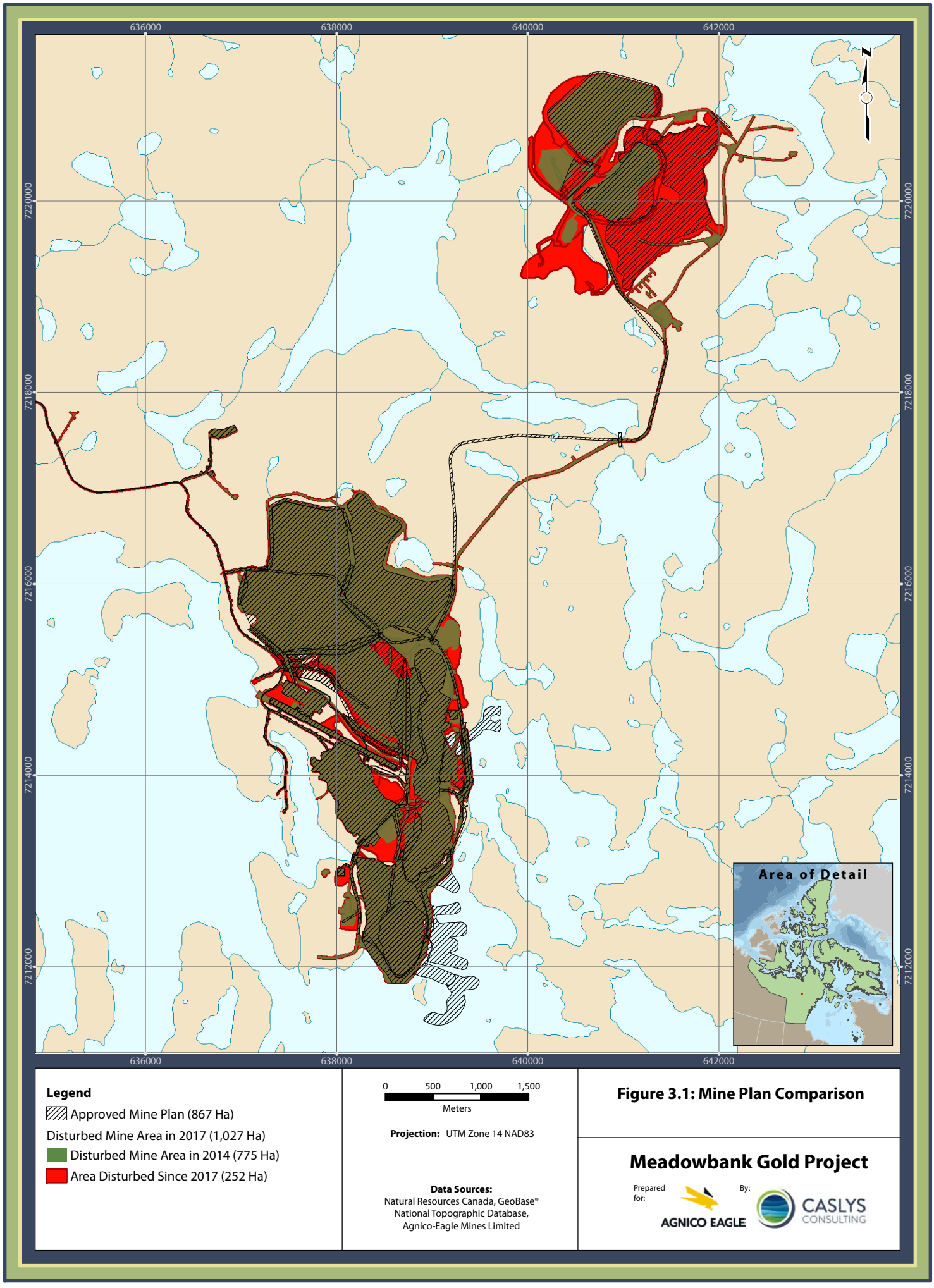
ELC Unit	Predicted ELC Unit Losses (ha) (from 2005 EIS plus Approved Extensions) [1]	Calculated ELC Unit Losses (ha)		Difference (to 2017)
		2014	2017	
Birch and Riparian Shrub	88.03	104.97	124.86	+36.83
Heath Tundra	82.29	93.47	104.61	+22.32
Lichen	82.72	87.67	105.98	+23.26
Lichen-Rock	25.52	27.12	37.53	+12.01
Ridge Crest / Esker / Avens	0.15	0.07	0.16	+0.01
Rock and Boulder	70.13	72.99	99.12	+28.98
Sedge	151.58	155.54	192.96	+41.39
Water	366.42	233.88	356.00	-10.43
Total Area	866.84 ha	775.71 ha	1,021.22 ha	+154.39

[1] Predicted loss numbers have not been updated since the 2014 report, and the approved extensions do not include the Phaser Lake extension

Table 3.3: Mine Site Predicted Threshold High Suitability Habitat Losses for Ungulates, Small Mammals, Waterbirds, and Other Breeding Birds

Habitat Loss	Terrestrial Habitat	Ungulate Growing Season	Ungulate Winter Season	Small Mammals	Waterbirds	Breeding Birds
Predicted Loss [1]	867 ha	240 ha	191 ha	178 ha	518 ha	322 ha
2010 Value	352 ha	118 ha	69 ha	67 ha	214 ha	146 ha
2012 Value	493 ha	144 ha	99 ha	95 ha	304 ha	197 ha
2014 Value	776 ha	261 ha	208 ha	194 ha	389 ha	354 ha
2017 Value	1,021	318 ha	248 ha	241 ha	549 ha	422 ha
% of Predicted Loss	117.8%	132.6%	130.2%	135.6%	106.0%	131.2%
Allowed Threshold (above Predicted Loss)	5%	10%	10%	10%	10%	10%
Threshold Exceedance	**Yes**	**Yes**	**Yes**	**Yes**	No	**Yes**

[1] Predicted loss numbers have not been updated since the 2014 report, and the approved extensions do not include the Phaser Lake extension


636000
638000
640000
642000
7220000
7218000
7216000
7214000
7212000
N
Area of Detail
Legend
Approved Mine Plan (867 Ha)
Disturbed Mine Area in 2017 (1,027 Ha)
Disturbed Mine Area in 2014 (775 Ha)
Area Disturbed Since 2017 (252 Ha)
0
500
1,000
1,500
Meters
Projection: UTM Zone 14 NAD83
Data Sources:
Natural Resources Canada, GeoBase®
National Topographic Database,
Agnico-Eagle Mines Limited
Figure 3.1: Mine Plan Comparison
Meadowbank Gold Project
Prepared for:
AGNICO EAGLE
By:
CASLYS CONSULTING

3.7 ACCURACY OF IMPACT PREDICTIONS

A summary of the impact predictions identified in the TEMP (Cumberland 2006) is provided in **Table 3.4**. The 2017 habitat loss data were compared to the impact prediction thresholds, which includes approved extensions (up to 2014 and not including Phaser Lake extension), to evaluate adherence to the impact predictions and the provision of adaptive management, as either a necessary or proactive measure.

Actual habitat loss as result of mine site construction to date was 17.8% higher than the FEIS predicted and approved habitat loss (i.e., 154 ha greater than predicted and approved). For the AWAR, actual habitat loss was 38.5% lower than predicted (i.e., 108 ha less than predicted). The overall net loss for the project to date, combining the mine site and AWAR together, is 4% above predicted total habitat loss (i.e., 46 ha greater than predicted and approved).

3.8 MANAGEMENT RECOMMENDATIONS

Calculated habitat loss for the mine site are above estimated and approved habitat loss values, while High suitability habitat losses are above threshold levels for the winter and growing seasons for ungulates, small mammals, and other breeding birds.

The NPAG Extension on the north portion of the Waste Rock Storage facility, which was approved by NWB and has taken 17.8 ha of High suitability habitat, will be removed for the capping of the North Cell Tailings Storage Facility during the closure/reclamation phase of the mine. High suitability habitat in this NPAG extension area will again be available for use by ungulates.

Where unnecessary and unplanned habitat degradation has occurred, measures may be taken to reclaim or rejuvenate these areas. Measures may involve removal of contaminated soil, placement of stockpiled native soils, reseeding (e.g., native-grass cultivars and forbs such as nitrogen-fixing legumes) and transplanting of vegetation.

Although habitat loss thresholds were exceeded for the mine site based on current information, the overall net loss for both the mine site and AWAR is less than 5% above predicted loss, despite expansion of the project through the Phaser Pit.

Table 3.4: Accuracy of Impact Predictions – Habitat Loss

Measurable Parameter	Threshold [1]	Threshold Exceeded (2014)	Adaptive Management Implemented	Status	TEMP Ref.
Habitat Loss	Terrestrial habitat lost will not exceed the total area of loss predicted (867 ha for mine site and 281 ha for AWAR) in the Final EIS or described on subsequent, approvals or authorizations. Threshold is >5% of predicted losses. Specific habitat loss thresholds are also available for each animal group (provided below).	YES – Mine site NO - AWAR	To be determined following a more inclusive habitat analysis in the 2018 annual report	Ground Surveys Mapping and GIS Analyses – ELC Habitat Mapping	4.3.2.1
	Ungulates: >10% of predicted FEIS high suitability habitat loss (Mine – growing – 240 ha; Mine – winter – 191 ha; Access Road – growing – 63 ha; Access Road – winter – 188 ha)	YES – Mine Site, winter season YES – Mine Site, growing season NO – AWAR	To be determined following a more inclusive habitat analysis in the 2018 annual report		4.4.2.1
	Small Mammals: >10% of predicted FEIS high suitability habitat loss (Mine – 178 ha; Access Road – 156 ha)	YES – Mine Site NO - AWAR	To be determined following a more inclusive habitat analysis in the 2018 annual report		4.6.2.1
	Waterbirds: >10% of predicted FEIS high suitability habitat loss (Mine – 518 ha; Access Road – 22 ha)	NO – Mine Site NO – AWAR	NO		4.3.2.1
	Other Breeding Birds: >10% of predicted FEIS high suitability habitat loss (Mine – 322 ha; Access Road – 170 ha)	YES – Mine Site NO - AWAR	To be determined following a more inclusive habitat analysis in the 2018 annual report		4.9.2.1
Habitat Reclamation following Mine Closure	Following mine closure and reclamation activities (except for tailings, waste rock facilities and exposed pit slopes) will see re-vegetation rates of >20% (year 2 post-closure), >40% (year 5), >60% (year 8) and >80% (year 11)	Not Yet Applicable	Not Yet Applicable (NOTE: Minimal capping has already begun in the North Cell Tailings Area in 2015) during the closure phase of the mine)	Monitoring program to be set up post mine closure	4.3.2.3

[1] Predicted loss numbers have not been updated since the 2014 report, and the approved extensions do not include the Phaser Lake extension

SECTION 4 • BREEDING BIRD MONITORING

4.1 OVERVIEW

The breeding bird PRISM (Program for Regional and International Shorebird Monitoring) plot and bird transect monitoring programs were designed to evaluate potential project-related changes in breeding bird species abundance, richness, and diversity over time. The program is one component of the larger monitoring strategy to evaluate the success of mitigation measures implemented to minimize the amount of vegetation (i.e., bird habitat) removed or degraded (e.g., dust fall) by the project, and whether certain mine activities such as the mine site or AWAR have resulted in reduced or compromised habitat function or effectiveness (i.e., zone of influence) for breeding birds.

For the breeding bird transects, data analysis in 2011 and 2015 indicated that no road-related effects had occurred to date, and thresholds had not been exceeded; therefore, annual transect surveys were permanently suspended after 2015.

4.2 OBJECTIVE

The objective of the breeding bird plot monitoring program is to confirm that a mine-related change of 20% function, determined by an increase or decrease in local breeding bird abundance, richness, and diversity, has not occurred. The program uses the widely accepted Canadian Wildlife Service's (CWS) PRISM protocols (CWS 2005). A secondary objective of the monitoring program is to determine more effective ways to prevent disturbance to nesting birds based on feedback from mitigation measures and observations.

4.3 DURATION

The breeding bird plot monitoring program is to continue every year during the construction period and for at least the first three full years of mine operation (2010 to 2012) in accordance with the TEMP (Cumberland 2006). The last PRISM plot survey was conducted in 2015.

4.4 RECOMMENDATIONS

For the breeding bird PRISM plots, data analysis in 2015 showed that most bird community indices were variable with little difference in overall trends between mine and control plots. Thresholds had not been exceeded and no additional management or mitigation considerations were necessary. The next set of PRISM plot surveys is planned for 2019.

SECTION 5 • RAPTOR NEST MONITORING

5.1 OVERVIEW

The raptor nest survey monitoring program has been designed to confirm that mine-related activities do not result in inadvertent negative effects on nesting raptors. Raptor surveys along the proposed AWAR alignment in 2005 (i.e., prior to construction) indicated that only low suitability habitat for nesting raptors was available. During AWAR construction in 2007/2008, excavated and blasted rock materials were used from numerous quarries along the alignment, resulting in the creation of some moderate and high suitability raptor nesting habitat areas characterized by steep rock walls. Established nests within some of these quarries are monitored on an annual basis to evaluate occupancy.

5.2 OBJECTIVES

The primary objectives of the raptor nest survey monitoring program are to:

1. Confirm that raptor nest failures are not caused by mine-related activities. The threshold level is one nest failure per year; and

2. Confirm that no project-related mortality of raptors occurs. The threshold level of mortality is one individual per year.

5.3 DURATION

Raptor nest monitoring is to continue annually during the operation and decommissioning phases of the mine in accordance with the TEMP (Cumberland 2006).

5.4 METHODOLOGY

Between 2000 and 2009, raptors were periodically recorded during AWAR road surveys, waterbird nest surveys, and aerial surveys and investigated further, as required; however, given the overall low probability of raptor occurrence within the LSA and RSA, a specific raptor survey was not scheduled. In 2009, an active Peregrine Falcon (*Falco peregrinus*) nest at Quarry 19 prompted the initiation of a dedicated raptor nest survey in 2010. Surveys from 2011 through 2017 continued this work, focusing particularly on quarries along the AWAR. Sporadic surveys in specific areas (i.e., Portage, Goose, and Vault pits, fuel tank storage) were also conducted when raptors were observed during mine site environmental inspections or employees reported any sightings. Visual checks of active falcon nest sites were conducted during regular ground reconnaissance surveys along the AWAR. Non-disruptive monitoring techniques, which included monitoring nests from a vehicle within the quarry or from the AWAR, ensured that active nests were not approached by Agnico Eagle personnel. Using these techniques, environmental personnel were able to monitor nest success throughout the summer season. Nest monitoring was not completed along the Vault Road since neither quarries nor potential raptor habitat are present. Any observed raptor activity in this area is documented through regular mine site inspection and road surveys.

5.5 HISTORICAL RESULTS

Single nesting pairs of Peregrine Falcon were recorded in 1996 and 2005 in the Mine RSA, but nests near mine facilities have only been routinely recorded since 2009, at which time dedicated nesting surveys were included in the monitoring program. Nine unique Peregrine Falcon nesting sites have been recorded between 2009 and 2016; seven of these were in quarries along the AWAR, one nest was located on the Portage Pit wall (observed in 2012 and 2013), and one nest was in Goose Pit (observed in 2016) (**Figure 5.1**). Not all these unique nesting sites are active every year.

5.6 2017 RESULTS

In 2017, nine active Peregrine Falcon nests were documented in Quarries 3, 7, 8, 16, 17, 18, 19, 21 and 22 along the AWAR. Nesting was observed for the first time at Quarry 8, 17 and 22, while previous nest sites at Quarry 2 (2014), Portage Pit (2013) and Goose Pit (2016) were not active in 2017 (see **Table 5.1**). Cumulative information on Peregrine Falcon nests from 2009 to 2017 is summarized in **Table 5.1** and **Figure 5.1**. In addition to the nine active nest sites in 2017, Peregrine Falcon activity was also observed at five additional quarry sites (i.e., Quarries 2, 9, 10, 11, 14) during the monitoring program.

Observations made throughout the nesting season on raptor activity and nest success are detailed in **Table 5.2**. Nesting success was confirmed through identification of maturing chicks at six out of nine active nesting sites along the AWAR in 2017. The nest at Quarry 16 once again did not have confirmed egg or chicks present, but three falcons were present in mid-summer. At Quarry 18, where an active nest has been observed since 2010, no eggs or chicks were observed this year. A nest was observed for the first time at Quarry 8 where five young falcons were observed flying in late summer. This new 2017 nesting site should be closely monitored next year to document eggs and/or chicks. Specific raptor nest management plans were not warranted at any of the active nest sites, as mine-related activity was minimal in the quarries.

Falcon activity observed at Vault Pit was deterred using raptor cannons. Additional falcon activity at Baker Lake Tank Farm #4 was reported to the Conservation Officer, and a raven nest observed at Baker Lake Tank Farm #5 was removed in April 2017 under an exemption permit (see **Section 6.5**). No other nesting activity was observed in more active areas of the mine (e.g., pits, waste rock piles); therefore, additional steps to avert nesting activities were not required.

Additional observations of raptor activity around the mine site are included in **Appendix A**. Peregrine Falcons were observed flying over the mine site in May, June and July. A group of four Peregrine Falcons was observed along the AWAR in September, and one falcon was observed at rest at the Baker Lake spud barge in October. Rough-legged Hawk (*Buteo lagopus*) was observed on multiple occasions in May flying near the mine site and Amaruq Road, and one individual exhibited defensive behavior near the mine site's north east corner in July; however, follow-up monitoring did not confirm the presence of a nest. Peregrine Falcon and Rough-legged Hawk were observed during AWAR surveys (**Section 7.6**).

Table 5.1: Record of Peregrine Falcon and Nesting along the AWAR and in the LSA.

Quarry	2009	2010	2011	2012	2013	2014	2015	2016	2017	Comments[1]
1	No	No	No	No	No	No	No	No	No	No falcons observed.
2	No	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	No	No	No	Falcon activity; no nest.
3	No	**Yes**	**Yes**	**Yes**	**Yes**	No	**Yes**	**Yes**	**Yes**	Falcons observed all season; 4 eggs, then 3 chicks and 2 adults.
4 to 6	No	No	No	No	No	No	No	No	No	No falcons observed.
7	No	No	No	No	No	No	No	**Yes**	**Yes**	2 adults around nest early in season. 2 eggs present in nest. Nest appeared abandoned in July with 1 egg in nest and 1 fallen egg in quarry.
8	No	No	No	No	No	No	No	No	**Yes**	Nest observed. 5 young falcons flying in vicinity in late summer.
9	No	Yes[1]	Yes[1]	No	No	No	No	No	No	No nest observed but aggressive falcons present in July. Cliff access difficult.
10 /11	No	No	No	No	No	No	No	No	No	Falcon activity, no nest.
12	No	No	No	No	No	No	No	No	No	No falcons observed.
13	No	No	No	No	No	No	No	No	No	No falcons observed.
14	No	No	No	No	No	No	No	No	No	Falcon activity, no nest.
15	No	No	No	No	No	No	No	No	No	No falcons observed.
16	No	No	No	No	No	No	**Yes**	**Yes**	**Yes**	No eggs or chicks confirmed, but 3 falcons in area mid-summer. Nest appeared abandoned in August.
17	No	No	No	No	No	No	No	No	**Yes**	4 chicks, 2 adults observed. Nest appeared abandoned in August.
18	No	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	No	**Yes**	**Yes**	No eggs or chicks confirmed, 2 adults observed late in season; nest appeared abandoned in August.
19	**Yes**	No	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	Nest with 3 eggs. 3 birds observed with 1 unhatched egg in nest late in season.
20	No	No	No	No	No	No	No	No	No	Falcon activity, no nest.
21	No	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	3 eggs confirmed. 1 mature chick observed in early August. Nest appeared abandoned in August. 1 perched adult in September.
22	No	No	No	No	No	No	No	No	**Yes**	3 eggs confirmed. 2 adults and 1 young falcon observed.
Portage	No	No	No	**Yes**	**Yes**	No	No	No	No	No falcons observed.
Vault	NA	NA	NA	NA	No	No	No	No	No	Falcon activity deterred on one occasion.
Goose	NA	NA	No	No	No	No	No	**Yes**	No	No falcons observed.

[1] Description of suitability of nesting habitat found in previous year's monitoring reports.

Table 5.2: Raptor Nests Identified and Monitored at the Mine Site and along the AWAR between Baker Lake and the Meadowbank Mine Site in 2017.

Quarry or Pit Location	GN Site #[1]	Species	Location (UTM)	2017 Observation Date	Observations
3	4004	Peregrine Falcon	14W 0638009 7156419	19 May	3 adults
				9 June	2 adults
				16 June	2 adults, 4 eggs, west side of quarry
				20 July	2 adults
				28 July	1 adult
				4 Aug	2 adults, 3 chicks
				26 Aug	2 adults
				2 Sept	2 adults
				23 Sept	1 adult perched
7	2016A[2]	Peregrine Falcon	14W 0629905 7167764	19 May	2 adults
				9 June	2 adults
				16 June	2 eggs, south side of quarry
				20 July	1 egg in nest, 1 egg in quarry, no adults observed
8	2017A[2]	Peregrine Falcon	14W 0628910 7170415	26 Aug	5 young falcons flying
				2 Sept	5 young falcons flying
16	4007	Peregrine Falcon	14W 0627212 7193129	19 May	1 adult
				26 May	1 adult
				2 June	1 adult
				20 July	Nest observed, 3 falcons
				28 July	1 adult
				26 Aug	2 adults, abandoned nest
				23 Sept	1 adult perched
17	2017B[2]	Peregrine Falcon	14W 626884 7195600	18 July	2 adults, 4 chicks
				4 Aug	2 falcons, abandoned nest
				26 Aug	2 adults, abandoned nest
18	4008	Peregrine Falcon	14W 0627351 7202109	26 Aug	2 falcons, abandoned nest

Quarry or Pit Location	GN Site #[1]	Species	Location (UTM)	2017 Observation Date	Observations
19	3901	Peregrine Falcon	14W 0628686 7204285	18 June	3 eggs
				21 June	1 adult
				27 June	1 adult
				2 July	1 adult
				20 July	2 adults
				4 Aug	3 falcons
				26 Aug	1 unhatched egg, 2 adults perched
21	4009	Peregrine Falcon	14W 0630781 7211705	19, 23, 26, 30 May	1 or 2 adults observed
				2 June	1 adult
				18 June	4 eggs
				20 July	1 adult
				28 July	2 adults
				4 Aug	1 adult
				26 Aug	1 very mature chick, 2 falcons, abandoned nest
				23 Sept	1 adult perched
22	2017C[2]	Peregrine Falcon	14W 0633625 7216088	18 June	3 eggs
				20 July	3 falcons
				28 July	2 falcons
				4 Aug	3 falcons
				26 Aug	2 adults, 1 young

[1] Government of Nunavut (GN) Raptor Database site number
[2] Unique nest identifier (awaiting GN Raptor Database site number)

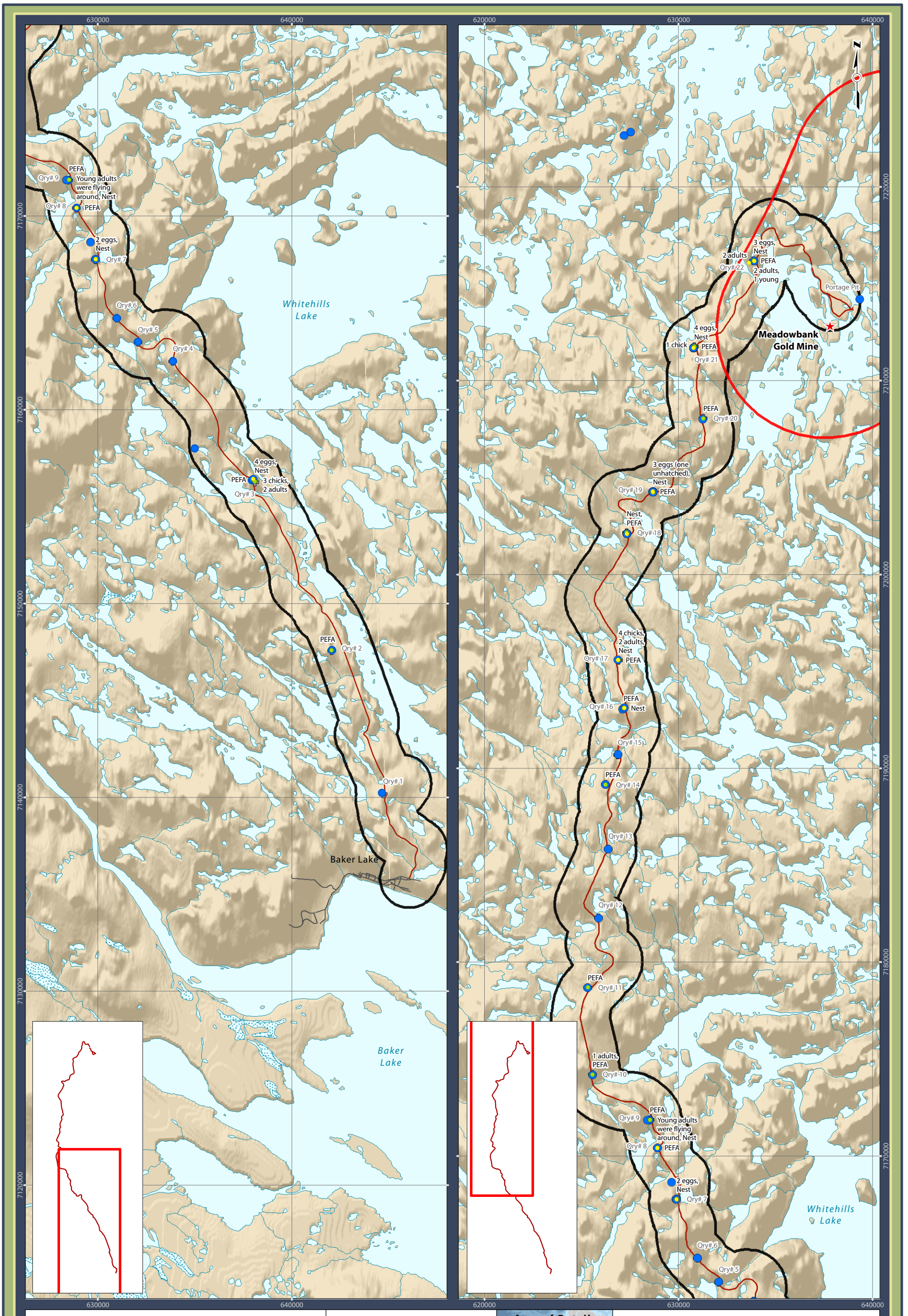


Figure 5.1: Raptor Nest Locations for the AWAR and Mine Site (2009 to 2017)

Meadowbank Gold Project

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5.7 ACCURACY OF IMPACT PREDICTIONS

A summary of the impact predictions identified in the TEMP (Cumberland 2006) is provided in **Table 5.3**. The 2017 raptor monitoring data were compared to the impact prediction thresholds to evaluate adherence to impact predictions and provision of adaptive management, as either a necessary or proactive measure.

Table 5.3: Accuracy of Impact Predictions – Disturbance to Nesting Raptors for the AWAR and Mine Site, and Raptor Mortality.

Potential Effect	Threshold	Threshold Exceeded (2017)	Adaptive Management Implemented	Status
Disturbance to Nesting Raptors	Raptor nest failures will not be caused by mine-related activities. Threshold is one nest failure per year.	NO	NO	AWAR Surveys Dedicated Raptor Nest Surveys Daily / Weekly Systematic Mine Site Ground Surveys
Raptor Mortality	One (1) individual	NO	NO	AWAR Surveys Daily / Weekly Systematic Mine Site Ground Surveys

5.8 MANAGEMENT RECOMMENDATIONS

Quarrying activities along the AWAR corridor have created moderate to high suitability Peregrine Falcon nesting habitat. Falcons are expected to continue to use select quarries for the foreseeable future, which may necessitate the implementation of a raptor nest management plan for nests if deemed necessary. Agnico Eagle will continue to:

- Conduct raptor nest surveys annually at each of the quarries along the AWAR early in the nesting season (mid- to late June) to confirm the status of previously confirmed raptor nests, assess the presence of new raptor nests, and determine the need, if any, for a raptor nest management plan;
- Monitor active raptor nests weekly in the breeding season to confirm nest success or failure;
- Ensure that environmental personnel maintain accurate records of nesting activity and success for all active nests for the duration of these surveys to determine if thresholds are exceeded;
- Monitor pits and waste rock piles at the mine site to avert nesting attempts by raptors. If a nest is established, the general mine site Peregrine Falcon Management and Protection Plan will be followed; and
- If the Management Plan is not successful in averting falcon nesting in active mining pits, consult with Dr. Franke to discuss site-specific protective measures and, if needed, deterrence recommendations to ensure falcon protection. Dr. Alastair Franke, from the University of Alberta, has been conducting research on raptors in Nunavut since 2003.

SECTION 6 • MINE SITE GROUND SURVEYS

6.1 OVERVIEW

The mine site ground survey monitoring program has been designed to verify that impacts to wildlife in and around the mine site LSA are not occurring. The program has a strong emphasis on monitoring mortality of various wildlife groups utilizing habitats near the mine site. In addition, the mine site ground survey monitoring program is an integral component of the monitoring strategy for evaluating sensory disturbance indicators for Caribou (*Rangifer tarandus*).

6.2 OBJECTIVES

The primary objectives of the mine site ground surveys are to:

1. Evaluate whether mine-related construction and operation activities preclude Caribou from using suitable habitats beyond 500 m (considered to be an average across various disturbance types) of mine buildings, facilities, and roads. Threshold level within mine facilities is unnatural Caribou use patterns beyond 500 m. The threshold level along the AWAR is unnatural Caribou use patterns beyond 1,000 m (also see **Section 7**);

2. Confirm that Caribou will not be killed through other mine-related mortality such as falling in pits, tailings sludge, or other means. The threshold level of mortality is one individual per year;

3. Verify that measures are in place such that no Grizzly Bears (*Ursus arctos*) or Wolverines (*Gulo gulo*) will need to be destroyed at the mine site. The threshold level of mortality for predatory mammals is one individual per year; and

4. Verify that high value habitats (e.g., sedge meadows) are avoided, and all activities within 100 m of a bird nest site during the latter part of the nest stage (fledgling) are avoided.

6.3 DURATION

The mine site ground surveys are to be conducted regularly by Agnico Eagle environmental personnel over the operation and closure phases of the mine to verify that changes to habitats around the mine site do not cause effects to wildlife and their use of habitat.

6.4 METHODOLOGY

6.4.1 Mine Site Inspections

In 2017, environmental personnel conducted regular mine site inspections focusing on waste management, spills, hazardous waste management, and wildlife monitoring. Formal mine site inspections were carried out at least weekly as part of broader environmental on-site management. During these inspections, non-conformities were identified and rapidly addressed by the responsible department.

Weekly inspections included:

- Regular monitoring of Caribou and Muskox (*Ovibos moschatus*) near the facilities. Large mammal presence within the mine is documented during daily and weekly (formal) inspections. Any issues related to safety or proximity effects are identified and the appropriate mitigation is implemented. If risks to animal health are perceived, efforts are made to avoid the wildlife and provide them the right of way. In 2017, weekly mine-site ground survey inspections were conducted;
- Regular monitoring of all large mammals on the site;
- Regular monitoring of breeding birds (especially in the spring). No active nests were found in 2017, therefore no additional monitoring occurred; and
- Inspections of waste management areas, bins, and hazardous material storage.

During environment department inspections and wildlife ground surveys, which focus on migratory birds, ungulates, Arctic Fox (*Vulpes lagopus*), Wolf (*Canis lupus*), Grizzly Bear, and Wolverine, or through general employee observations or incidence reports provided to the environment department, technicians record and follow up as needed to ensure the protection of wildlife near the mine site. These observations, along with monitoring and deterring activities, are recorded in **Appendix A** and **B**. Monthly summary reports and wildlife observation data are submitted to the GN, while quarterly reports are submitted to the KIA.

No ancillary construction activity was undertaken without environmental notification and all activities were within the predicted and approved mine footprint as confirmed through environmental inspections, ground surveys, and coordination with engineering and site services on the mine site. All areas used by the mine have been accepted and approved by regulators and the KIA through submission and acceptance of annual reports and updated management plans.

6.4.2 Incidental Mine Site Wildlife Observations

All mine site personnel, including construction and support staff, are required to document and report wildlife observed within the boundaries of the mine as well as ancillary areas (particularly the AWAR). The protocol involves filling out a wildlife log form located in designated areas or by notifying staff in the environment department, which is intended to ensure that potential problem animals are identified in accordance with Appendix A - Section 2.2.8 (Reporting Wildlife Observations and Incidents) of the TEMP (Cumberland 2006). Completed incidental wildlife log forms are collected on a regular basis for review by environmental personnel. Pertinent data, and daily and weekly mine site inspection reports are consolidated and entered into a database (**Appendix A**). Monthly summary reports and wildlife observation data are submitted to the GN. Quarterly reports are submitted to the KIA.

6.4.3 Waste Management and Landfill

Operation and management of on-site waste is an important component of wildlife management at Meadowbank. The monitoring program in 2017 built on the successes and approaches of monitoring in previous years (see 2014 Wildlife Monitoring Summary Report for details).

6.5 2017 RESULTS

6.5.1 Incidental Wildlife Observations

Mine site incidental observations were consolidated from the daily and weekly inspection reports, and observations by mine personnel (see **Appendix A**). Observations were used by environmental personnel to monitor wildlife activity within the mine site and identify potential problem animals. A summary of observations that required action is provided in **Table 6.1** below.

When wildlife was observed in and around the mine site, monitoring frequency increased, but records indicate that few deterrence actions were required in 2017. In 2016, an unusually high frequency of activity and deterrence action was recorded, especially for Caribou in January and February. This degree of human-wildlife interaction at the mine site was not observed in 2017. Deterrence actions implemented in and around the Meadowbank mine site ranged from minimal actions (i.e., blocking the road, approaching animals or herds on foot or by vehicle) to more aggressive use of flares and scare cartridges. In most cases, deterrence proved effective (**Table 6.1** and **Appendix A**).

Trends and unique wildlife observations around the mine site are discussed in the following sections. In a few cases, observations led to direct action to prevent human-wildlife conflict. For example, in February and March 2017, regular memoranda were distributed suspending all recreation activities and reminding staff of wildlife encounter protocols because of more frequent observations of Wolf and Wolverine around the mine site (see **Appendix B**).

Table 6.1: Wildlife Presence Requiring Action (from **Appendix A**).

Date	Species	#	Location	Action
19 Jan	Wolverine	1	Mine site	Deterred
22 Jan	Wolverine	1	Mine site	Deterred
13 Feb	Wolf	1	Mine site	Deterred
14 Feb	Wolf	3	Mine site	Deterred
17 Feb	Wolf	1	Mine site	Deterred
25 Feb	Wolf	1	Mine site	Deterred
28 Feb	Wolf	1	Mine site	Deterred
5 Mar	Wolf	2	Mine site	Deterred
19 Mar	Wolf	2	Mine site	Deterred
26 Mar	Wolverine	1	Mine site	Deterred
9 May	Wolverine	1	Mine site	Deterred
21 June	Arctic Fox	2	Mine site	Deterred
27 July	Wolf	1	Mine site – by Nova and core shack	Deterred
9 Aug	Caribou	250	AMQ Road (Km 54-56)	Road closed
26 Oct	Caribou	~1000	Crossing AWAR	Road closed
14 Nov	Wolverine	1	Mine site	Deterred
3 Dec	Wolverine	1	Mine site	Deterred
4 Dec	Wolverine	1	Mine site	Deterred
12 Dec	Wolverine	1	Mine site	Deterred
25 Dec	Wolverine	1	Mine site	Deterred
27 Dec	Wolverine	1	Mine site	Deterred
27 Dec	Arctic Fox	1	Mine site	Deterred
28 Dec	Wolf	1	Mine site	Deterred

6.5.2 Waterbird Monitoring

To minimize accidental waterbird confinement around the mine site, entrapment in the tailings, and mortality, regular inspections were completed throughout the migratory period and during weekly or daily inspections, as deemed necessary by environmental personnel. Flocks of waterbirds were not observed frequenting on-site aquatic areas (e.g., tailings ponds), and no deterrence actions were required in 2017.

6.5.3 Raptor Monitoring

Raptor monitoring was conducted as part of routine mine site inspections of the pit and other areas to ensure adequate bird protection and management. Peregrine Falcons were observed around the mine site from May to July and were also observed flying overhead in October and at the spud barge in Baker Lake (**Appendix A**). In May, Peregrine Falcons were observed near Baker Lake Fuel Tank #4, possibly exhibiting nesting behavior. The Conservation Officer was contacted for advice, but no more sightings were made in this area (**Appendix B**). Peregrine Falcon nesting activity was observed at Vault Pit in June, but adults were successfully deterred using the cannon.

Rough-legged Hawks were observed from May to July, flying near the Meadowbank mine site. No other raptor species were observed around the mine site in 2017.

Common Raven nest activity was observed at Baker Lake Fuel Tank #5 and #6. In April, an exemption permit to remove the nests was received from the Conversation Officer. A nest with five frozen eggs was subsequently removed from Tank #5 (the nest at Tank #6 was incomplete and never occupied; see **Appendix B**).

6.5.4 Caribou and Muskox Protection

Caribou were observed on a regular basis in and around the mine site and near the Amuraq Road year-round. No potential human-wildlife conflict occurred, and Caribou deterrence actions were not required at the mine site in 2017 (**Appendix A**). During the winter, smaller congregations of less than 20 individuals were observed on occasion, but most observations were of individual Caribou. Groups of 20 or more animals were observed at the mine site and near the Amuraq Road area in mid-April and early May. Very few Caribou were recorded during the summer, and the only observations on the mine site were from around Vault road. In summer, Caribou observations were mostly along the Amuraq Road, prompting one road closure (**Section 7.6**). This pattern extended into late fall, when larger herds of up to 1,000 were observed on the AWAR requiring road closure; most Caribou observations in 2017 were on roads. In December, smaller herds of 30 Caribou were observed grazing at the Meadowbank mine site.

Muskox herds were observed around the mine site in 2017. Herds ranging in size from 10 to 35 individuals were observed at Meadowbank near the Amuraq Road infrequently beginning in January, and more frequently in May and June (**Appendix A**). In July and August, records were fewer and more dispersed along the AWAR. In the fall, 15 Muskox were observed in the Vault area and the AWAR (**Section 7.6**). No deterrence was needed for any of these observed animals.

6.5.5 Predatory Mammal Deterrence and Protection

Improved practices for waste segregation and incineration, the use of enclosed food waste facilities, and skirting around buildings have improved Arctic Fox protection and decreased fox-human interactions. Weekly inspections by environmental personnel provided monitoring data that indicated re-occurrences of Arctic Fox on-site, but no trapping was required in 2017 (**Appendix A**). Red Fox (*Vulpes vulpes*) was recorded around the mine site from January to March.

Wolverines were observed around the Meadowbank mine site regularly, mostly in transit and in winter months. Deterrence actions were required on occasion (**Table 6.1**) following Bear Wise deterrence training. More frequent sightings in February prompted the temporary suspension of mine site recreation activities (**Appendix B**). In July and August, small groups of Wolverines were observed at the Landfill, Waste Dump, and Sludge Dump areas (**Appendix A**). While well-defined food-handling practices and employee awareness programs at the mine site appear to be minimizing Wolverine fatalities or Wolverine-human interactions, efforts should be taken to address potential concerns in these attractant environments in the summer months.

Solitary Wolves were observed and monitored regularly beginning in mid-February (**Appendix A**). Deterrence actions were required into March, ranging from the use of flares to snowmobiles to rubber bullets. Two Wolves were observed on a regular basis around the mine site and Tailings Pond and Agnico Eagle was in constant communication with the Conservation Officer. Notices were sent on a weekly basis to Meadowbank employees regarding the presence of wildlife, waste management procedures, and requesting all sea cans and doorways be closed. Following an incident where two Wolves came near to staff, authorization was received from the Conservation Officer and the Wolves were dispatched on March 28 (**Appendix C**).

An injured Wolf was observed in early December near the mine site at Km 8 of the Amaruq Road; therefore, the road was closed during monitoring. The following morning, the Wolf was found dead, presumably killed by a Wolverine (**Appendix C**). The Wolf appeared to have an injury to the head, and many Caribou tracks were observed in the immediate area; therefore, this mortality is assumed to be unrelated to mine and road operations.

Two observations of Grizzly Bears were reported on the same day in April, one observation by the Exploration Geology group at Meadowbank and one observation at the mine site near Amaruq Road (**Appendix A**). No deterrence action was required. In early June, three Grizzly Bears were observed walking through the Meadowbank site, but again no action was required.

6.5.6 Wildlife Mortality – Mine Site

A summary of recorded wildlife fatalities near or within the mine site in 2017 is provided in **Table 6.2**, and a summary of fatalities to date is provided in **Table 6.3**. Copies of mortality incident reports can be found in **Appendix C**. All AWAR-related fatalities are tabulated and discussed in **Section 7.6.3**.

6.5.6.1 Caribou

One Caribou carcass was found being eaten by two Wolves along the fresh water barge road in December 2017. The Caribou was presumed to have been hunted and killed by these Wolves (**Appendix C**).

No Caribou mortalities related to project activities were reported at the mine site in 2017. All incident reports, observations, deterrence activities, and environment team responses to Caribou sightings are included in **Appendix A**. Any Caribou mortalities along the AWAR are discussed in **Section 7.6.3**.

Table 6.2: 2017 Mine Site Wildlife Fatality Log.

Date	Species	Count	Location	Comments
5 Jan	Fox	1	Mine site	Found injured and then died
7 Jan	Fox	1	Warehouse	Found frozen; unknown cause of death
14 Jan	Wolverine	1	Vault ring road	Hit by truck during night shift
28 Mar	Wolf	2	Mine site	Dispatched at Portage Pit, and fresh water barge at Third Portage Lake
1 Dec	Wolf	1	Meadowbank-Amaruq	Found injured amongst Caribou tracks; killed overnight by Wolverine
12 Dec	Fox	1	Mine site maintenance area	Found dead (fox being eaten by another fox)
23 Dec	Caribou	1	Mine site fresh water barge road	Found dead and being eaten by two Wolves

Table 6.3: Summary of Mine Site Wildlife Fatality Records for Caribou and Predatory Mammals (2007 to 2017).

Year	Caribou	Grizzly Bear	Wolverine	Wolf
2007	0	0	0	0
2008	0	0	0	2
2009	0	0	0	4
2010	0	0	0	1
2011	0	0	1	4
2012	0	0	0	1
2013	0	0	1	0
2014	0	0	0	1
2015	4[1]	0	0	1[2]
2016	1[3]	0	0	0
2017	1[3]	0	1	3[4]

[1] One Caribou died of natural causes while three were killed by Wolves.
[2] Naturally injured Wolf that needed to be euthanized.
[3] One Caribou killed by Wolves.
[4] One Wolf likely killed by Wolverine.

6.5.6.2 Predatory Mammals

All incident reports, observations, deterrence activities, and environment team responses to predatory mammal sightings are included in **Appendices A, B,** and **C**.

One Wolverine was reported injured on the Vault ring road in January. Subsequent investigation revealed that the Wolverine was hit by truck during the night shift. The Wolverine was reported dead on 14 January. Actions taken to improve prevention practices included employee consequences and reiteration of mine site wildlife protocols with all staff.

Following regular monitoring and deterrence actions in February and March, two Wolves were required to be euthanized on 28 March, under authorization of the Conservation Officer. The skin was brought to Baker Lake and the carcass was incinerated on-site. An official mortality report was submitted to the Conservation Officer and KIA (**Appendix C**).

6.5.6.3 Other Wildlife

One Arctic Hare (*Lepus arcticus*) was found dead at the mine site near Vault Road, but the mortality was not attributed to mine activity. A Ptarmigan was also found dead on one occasion (**Appendix A**).

Two Arctic Fox mortalities, at the mine site and in the warehouse, were reported to the Conservation Officer in January; the cause of death was unknown, and possibly related to each other (**Appendix C**). In May, one injured Arctic Fox was reported on the MBK site as possibly having a broken leg with a belly full of blood (**Appendix B**). The Conservation Officer authorized its dispatch if needed, but further observations determined that the blood was related to after-birth and that the fox was healthy and feeding young; therefore, the animal was not dispatched. One Arctic Fox was found dead and being eaten by another fox in December at the mine site maintenance area. Staff met with maintenance, warehouse, and housekeeping crews to emphasize the importance of good segregation of food waste to avoid attracting wildlife around the camp.

6.6 ACCURACY OF IMPACT PREDICTIONS

Table 6.4 provides a summary of the impact predictions identified in the TEMP (Cumberland 2006) that are evaluated, in part, by the mine site ground surveys. Specifically, the 2017 mine site ground survey monitoring data were compared to the impact prediction thresholds to evaluate adherence to the impact predictions and the provision of adaptive management, as either a necessary or proactive measure.

Table 6.4: Accuracy of Impact Predictions – Mine Site Wildlife Disturbances.

Potential Effect	Threshold	Threshold Exceeded (2017)	Adaptive Management Implemented	Status
Sensory Disturbance	Mine-related construction and operation activities will not preclude Caribou and Muskoxen from using suitable habitats beyond 500 m of mine buildings, facilities and roads.	NO	NO	Daily / Weekly Systematic Mine Site Ground Surveys; Incidental Wildlife Reporting; Satellite-collaring Data
Disturbance to Nesting Raptors	Raptor nest failures will not be caused by mine-related activities. Threshold is one nest failure per year.	NO	NO	Daily / Weekly Systematic Mine Site Ground Surveys; Incidental Wildlife Reporting; Dedicated Raptor Nest Surveys; AWAR Surveys
Healthy Prey Populations	Maintenance of healthy prey populations to ensure integrity and health of raptor habitats. Thresholds are qualitative and can be achieved through management and maintenance of vegetation and healthy prey communities.	Not completed in 2017	NA	Annual PRISM Plot surveys; ELC Habitat Mapping
Disturbance of Nesting, Roosting or Moulting Waterfowl	Mine facilities and activities will not affect the breeding success of waterbirds occurring in the area or disturb large concentrations of roosting or moulting waterbirds. Threshold level is one nest failure per year.	NO	NO	Daily / Weekly Systematic Mine Site Ground Surveys; Waterbird Nest Surveys
Project-related Mortality	Destruction of one problem Grizzly Bear or Wolverine at Meadowbank Site per year.	YES	Driver disciplined and wildlife avoidance protocols reiterated	Daily / Weekly Systematic Mine Site Ground Surveys
Project-related Mortality	One Caribou or Muskoxen mortality per year because of mine-related activities (e.g., falling into pits, tailing, sludge or other means)	NO	NO	Daily / Weekly Systematic Mine Site Ground Surveys
Project-related Mortality	Waterbirds will not be killed at the mine site. Threshold is one individual per year.	NO	NO	Daily / Weekly Systematic Mine Site Ground Surveys
Project-related Mortality	Breeding birds will not be killed at the mine site. Threshold is 50 individuals per year.	NO	NO	Daily / Weekly Systematic Mine Site Ground Surveys

6.7 MANAGEMENT RECOMMENDATIONS

The following are specific management recommendations for the mine site ground survey monitoring program:

- Continue to conduct informal daily and weekly mine surveys to verify that effects to wildlife are not occurring because of mine-related activities;
- Continue raptor nest monitoring around the mine site LSA and along the AWAR;
- Continue to apply the Wildlife Protection and Response Plan (Agnico 2014, and reviewed by GN DoE), which includes waste provisions, training, incident reporting, and protocols for problem wildlife. Efforts should be taken to ensure all perishable garbage is directed to the incinerator;
- Continue training and re-education to ensure that incidental wildlife reporting is completed by all mine site personnel such that environmental personnel can remain informed of pertinent wildlife-related activity near the mine site; and,
- Monitor tailings ponds daily during the waterbird migration period, beginning in mid-May. Increase the frequency of deterrent use if required.

SECTION 7 • ALL-WEATHER ACCESS ROAD AND VAULT ROAD GROUND SURVEYS

7.1 OVERVIEW

The AWAR and Vault Road systematic ground survey monitoring program has been designed to evaluate sensory disturbance for wildlife, particularly Caribou and Muskoxen utilizing habitats adjacent to the roads. The program also monitors mortality of species with a potential to utilize habitats near the AWAR.

7.2 OBJECTIVES

The primary objectives of the AWAR and Vault Road ground survey monitoring program are to:

1. Document wildlife utilization along the AWAR and Vault Road corridors;
2. Evaluate wildlife trends along the AWAR and Vault Road corridors, including identifying areas where higher densities of wildlife are observed. Evaluate whether road-related operations preclude Caribou from using suitable habitats beyond 1,000 m. The threshold level along the AWAR is unnatural Caribou use patterns beyond 1,000 m;
3. Assess the need for adaptive mitigation, such as temporary road closures during peak Caribou migration periods; and
4. Confirm that Caribou are not killed through road-related mortality. The threshold level of mortality for ungulates and predatory mammals is one individual per year.

7.3 DURATION

The AWAR and Vault Road systematic ground surveys are ongoing and are to be conducted a minimum of once per week throughout the year, and twice per week during Caribou migration (contingent on weather, road access and personnel availability) over the operation phase of the mine. Monitoring of vehicle collisions and mortality is continual. Agnico Eagle is committed to conducting approximately 75 AWAR road surveys per year.

7.4 METHODOLOGY

Beginning in early 2016, road surveys were expanded beyond the AWAR to include the recently completed Vault Haul Road.

The terrain on both sides of the road (to a maximum horizontal distance of approximately 1 km perpendicular from the road edge) is surveyed as the vehicle progresses at a maximum speed of 30 km per hour. The survey team typically includes two observers, one being the driver. For each sighting, the vehicle is safely parked in a road pullout and UTM coordinates are recorded along with the estimated distance of the animal(s) from the road. Where animals are sighted close to roads and a risk

of collision with vehicles is possible, the environmental monitor reports the number of animals, location, and direction of travel to the mine radio dispatcher who informs all vehicle operators. In addition, all vehicle operators report ungulates seen along the road to the dispatcher.

Regular data provided to mine site personnel from the Caribou satellite-collaring program (**Section 9**) are also used to track Caribou movement and potential migration towards the road and mine site.

7.5 HISTORICAL RESULTS

Ground surveys commenced shortly following the onset of AWAR construction (2007). Sampling intensity has been comparable along the entire length of the AWAR since 2009. Surveys along the Vault Road have been irregular since its completion but were included as part of regular surveys in 2016. Over the past nine years (to 2016), surveys have been completed along the AWAR every 3.9 to 6.1 days. Survey details are provided in **Table 7.1**.

7.6 2017 RESULTS

7.6.1 AWAR and Vault Road Surveys

The number of AWAR and Vault Road surveys completed each season in 2017 is provided in **Table 7.1**. The number of systematic road surveys completed in 2017 (n=85) was higher than most years and is the highest number of road surveys completed since 2008. Surveys were conducted on average every 4.3 days over the course of the year. Survey frequency was highest in May (n=12) and June (n=9) and remained constant in the late fall and early winter when Caribou movements are known to increase (i.e., seven surveys per month from July to November). Raw road survey data are provided in **Appendix D**.

Mammal species identified and observed during AWAR and Vault Road surveys in 2017 included Arctic Fox, Arctic Ground Squirrel (*Spermophilus parryii*), Arctic Hare, Caribou, Grizzly Bear, Muskox, Wolf, and Wolverine. Bird species observed included Arctic Tern (*Sterna paradisaea*), Canada Goose (*Branta canadensis*), Common Loon (*Gavia immer*), Common Raven, Greater White-fronted Goose (*Anser albifrons*), Herring Gull (*Larus argentatus*), Lapland Longspur (*Calcarius lapponicus*), Long-tailed Jaeger (*Stercorarius longicaudus*), Northern Pintail (*Anas acuta*), Peregrine Falcon, Rock Ptarmigan (*Lagopus muta*), Rough-legged Hawk, Sandhill Crane (*Grus canadensis*), Snow Goose (*Anser caerulescens*), and Tundra Swan (*Cygnus columbianus*).

Cumulative Caribou density along the AWAR for 2017 (all seasons) is provided in **Figure 7.1**. The highest Caribou densities in 2017 were observed around the Whitehills Lake area (between Km 30-35, Km 45-50 and north of Km 55), with sporadic higher densities closer to Baker Lake between Km 5 and Km 10, and further north between Km 77 and Km 80. Low densities were recorded at the northern end of the AWAR.

Table 7.1: Details of AWAR Surveys from 2007 to 2017.

Season	Number of AWAR Surveys										
	2007	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016***	**2017**
Spring (April to May)	13	15	15	9	10	14	9	11	17	10	19
Summer (June to July)	24	7	10	9	9	13	13	7	16	14	16
Fall (August to September)	8	15	8	12	11	12	10	11	11	16	14
Winter (Jan to Mar, Oct to Dec)	33	57	25	36	33	38	31	38	32	38	36
Year End Total	**78**	**94**	**58**	**66**	**63**	**77**	**63**	**67**	**76**	**78**	**85**
Duration	1-Mar to 31-Dec	2-Jan to 29-Dec	9-Jan to 16-Dec	21-Jan to 17-Dec	10-Jan to 30-Dec	4-Jan to 29-Dec	2-Feb to 27-Dec	12-Jan to 30-Dec	3-Jan to 18-Dec	2-Jan to 27-Dec	3-Jan to 29-Dec
Average Frequency of Surveys (over duration)**	4.1 days	3.9 days	6.1 days	5.6 days	6.0 days	4.7 days	6.0 days	5.5 days	4.7 days	4.7 days	4.3 days

* Vault Haul Road included in all road surveys from 2016 forward

** Frequency refers to the number of days between surveys, on average over the year

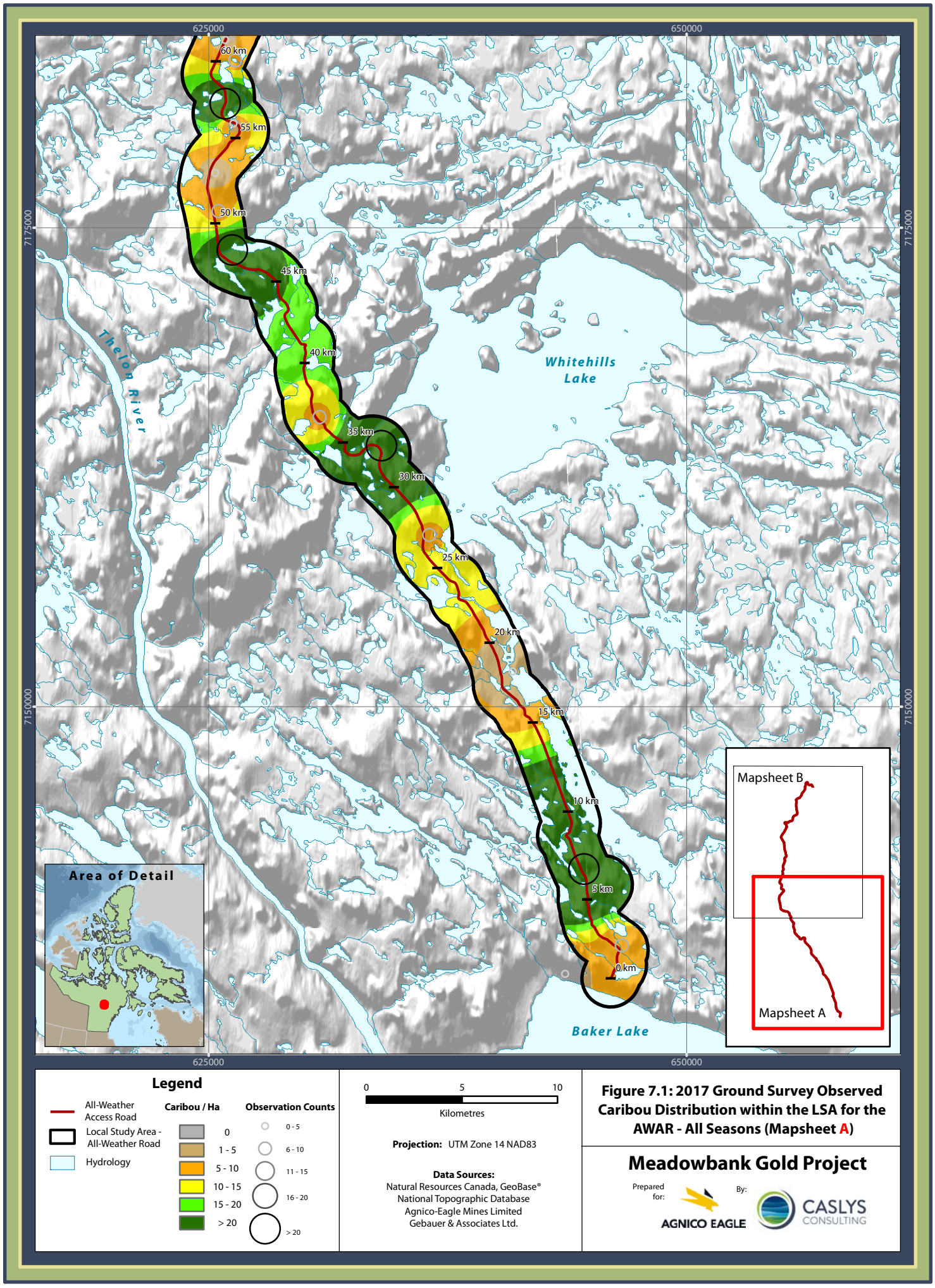


Figure 7.1: 2017 Ground Survey Observed Caribou Distribution within the LSA for the AWAR - All Seasons (Mapsheet A)

Meadowbank Gold Project

Prepared for: AGNICO EAGLE

By: CASLYS CONSULTING

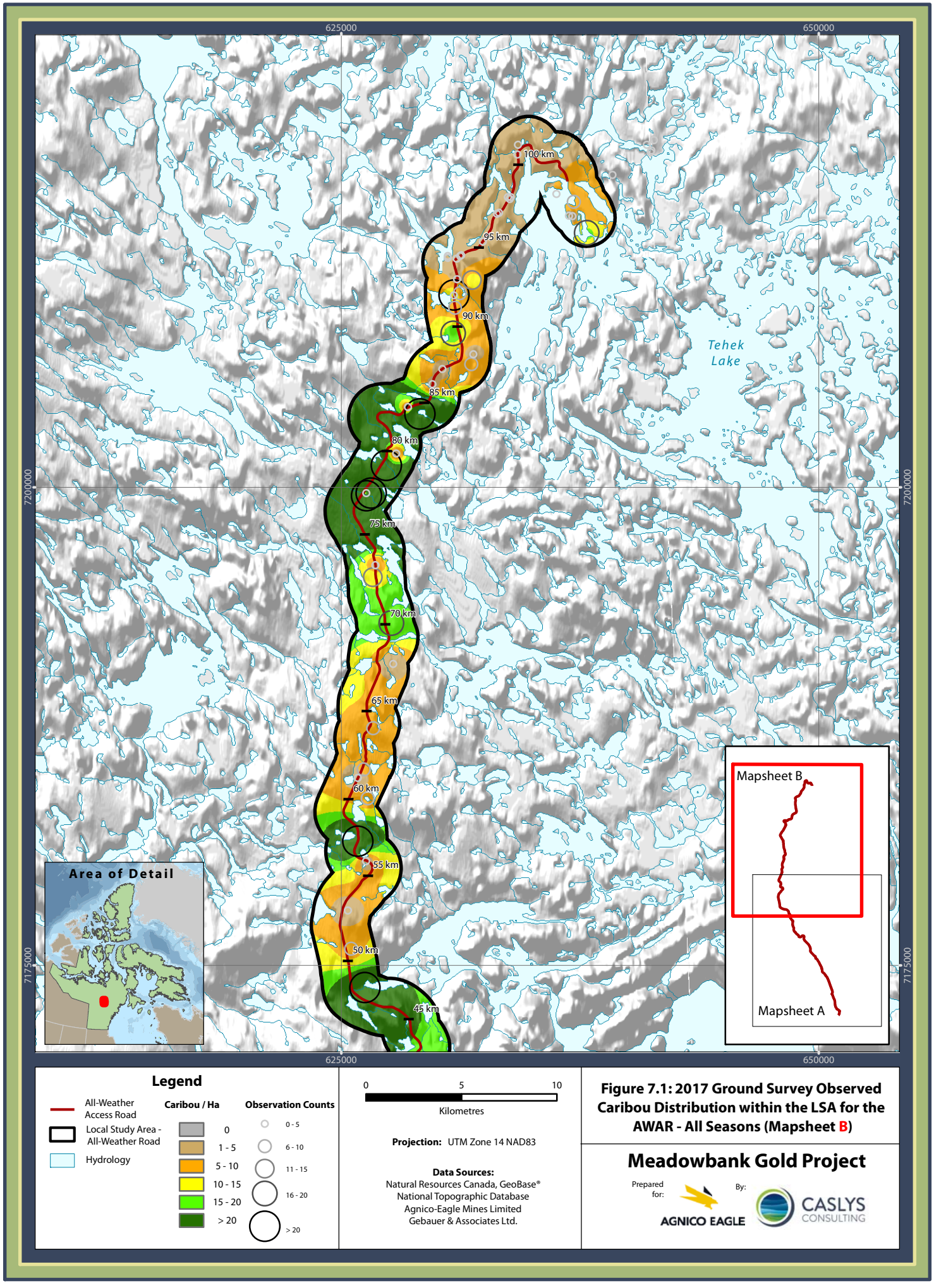


Figure 7.1: 2017 Ground Survey Observed Caribou Distribution within the LSA for the AWAR - All Seasons (Mapsheet B)

Meadowbank Gold Project

Prepared for: AGNICO EAGLE

By: CASLYS CONSULTING

The 2017 Caribou occurrence data were added to the 2008 to 2016 datasets with the resulting cumulative Caribou numbers presented in **Figure 7.2**. These data illustrate that for over 10 years of surveys, the highest cumulative Caribou abundances along the AWAR continue to be in areas closest to the Hamlet of Baker Lake, from Km 0 to Km 10 (cumulative density of 1,541 to 1,708 Caribou/km), and south of Whitehills Lake between Km 25 and Km 30 (1,944 Caribou/km). High Caribou abundances were also observed from Km 50 to Km 55 (1,389 Caribou/km), and Km 70 to Km 75 (1,248 Caribou/km). The 2017 data do not consistently follow this pattern. Higher density was observed further north of Whitehills Lake (between Km 30-35 and Km 45-50) and further north of Km 55, while higher density was not observed in the immediate vicinity of Baker Lake (**Figure 7.1**).

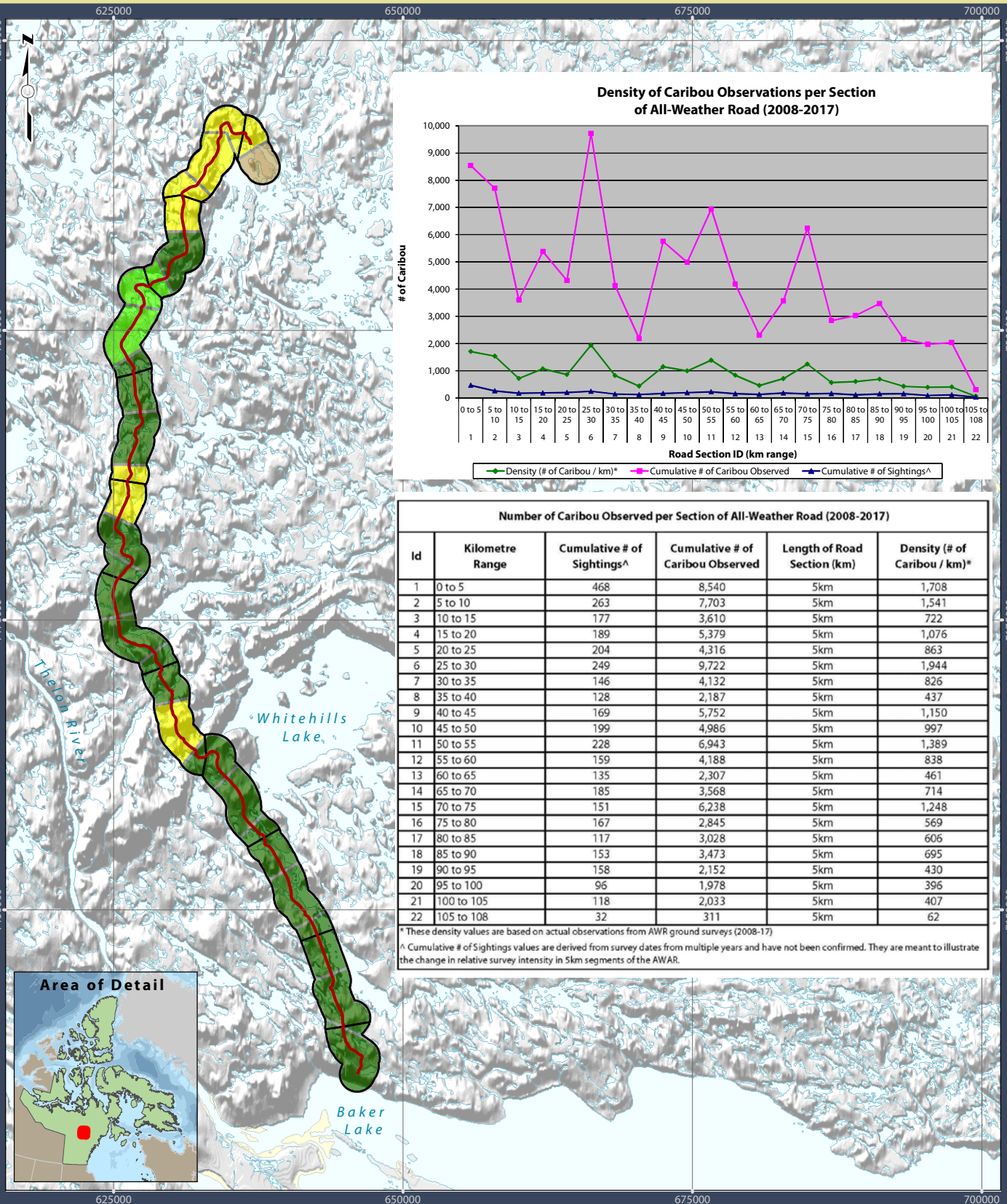
Despite a high frequency of surveys completed in 2017, lower Caribou numbers were recorded from AWAR surveys compared to most other years (**Figure 7.3**). For the first time since monitoring began, no Caribou were observed during AWAR surveys in May, which echoes movement patterns of collared Caribou (**Section 9.6**). The frequency of Caribou observed during AWAR surveys in spring was unusually low in 2017 (**Table 7.2**). The average number of Caribou observed per survey trip was also lower in November and December 2017 than most years; however, similar results were recorded in 2011 and observation data from AWAR surveys do fluctuate across the dataset (**Table 7.2**).

7.6.2 Road-related Mitigation

As in previous years, the security department assisted the environment department in preventing wildlife incidences along the AWAR and Vault Road by dispatching regular wildlife warnings based on observation and monitoring data. The road supervisors and operators also ensured protection of wildlife by assisting in surveillance and closing roads as needed (see **Appendix B**). Radio notices reminding operators of the appropriate speed limit were made frequently were made by dispatchers. During Caribou peak migration, notices were sent to all road occupants (**Appendix B**), regulatory agencies, local groups and wildlife consultants were notified, and AWAR and Vault Road wildlife survey efforts were increased to at least two times per week.

During late winter, spring and early summer, Caribou presence around the roads was minimal and did not require any road-related mitigation activities. In early August, most Caribou observations were along the Amaruq Road (**Appendix A**).

Caribou were observed moving along the AWAR in higher numbers in late October and early November (**Appendix A** and **B**). On 26 October, a large group of Caribou was reported along the AWAR at Km 35. The next day, increasing presence of Caribou was reported further south at AWAR Km 20 to Km 30, and on 29 October, at AWAR Km 20 to Km 28. Observations of large herds were reported on 1 November further north along the AWAR at Km 90 to Km 100 (approximately 2,000 animals) and at Km 50 to Km 70 (approximately 750 animals). Two smaller herds (approximately 100 Caribou) were observed around the Exploration Camp at AWAR Km 80 to Km 90 on 4 November. A herd of approximately 1,500 Caribou was observed near the Vault Road from 1 to 4 November. During the same time, smaller herds of Caribou were also observed in a few locations along the Amaruq Road.



Density of Caribou Observations per Section of All-Weather Road (2008-2017)

Number of Caribou Observed per Section of All-Weather Road (2008-2017)

Id	Kilometre Range	Cumulative # of Sightings^	Cumulative # of Caribou Observed	Length of Road Section (km)	Density (# of Caribou / km)*
1	0 to 5	468	8,540	5km	1,708
2	5 to 10	263	7,703	5km	1,541
3	10 to 15	177	3,610	5km	722
4	15 to 20	189	5,379	5km	1,076
5	20 to 25	204	4,316	5km	863
6	25 to 30	249	9,722	5km	1,944
7	30 to 35	146	4,132	5km	826
8	35 to 40	128	2,187	5km	437
9	40 to 45	169	5,752	5km	1,150
10	45 to 50	199	4,986	5km	997
11	50 to 55	228	6,943	5km	1,389
12	55 to 60	159	4,188	5km	838
13	60 to 65	135	2,307	5km	461
14	65 to 70	185	3,568	5km	714
15	70 to 75	151	6,238	5km	1,248
16	75 to 80	167	2,845	5km	569
17	80 to 85	117	3,028	5km	606
18	85 to 90	153	3,473	5km	695
19	90 to 95	158	2,152	5km	430
20	95 to 100	96	1,978	5km	396
21	100 to 105	118	2,033	5km	407
22	105 to 108	32	311	5km	62

* These density values are based on actual observations from AWR ground surveys (2008-17)

^ Cumulative # of Sightings values are derived from survey dates from multiple years and have not been confirmed. They are meant to illustrate the change in relative survey intensity in 5km segments of the AWAR.

Legend

- All-Weather Access Road
- Local Study Area - All-Weather Road
- Hydrology

Caribou Density (per km of AWAR)

- 21.0 - 137.8
- 137.9 - 304.0
- 304.1 - 480.8
- 480.9 - 679.6
- 679.7 - 2000.0

0 5 10 15

Kilometres

Projection: UTM Zone 14 NAD83

Data Sources:
Natural Resources Canada, GeoBase®
National Topographic Database
Agnico-Eagle Mines Limited.

Figure 7.2: Caribou Density along the AWAR (2008 to 2017)

Meadowbank Gold Project

Prepared for: AGNICO EAGLE

By: CASLYS CONSULTING

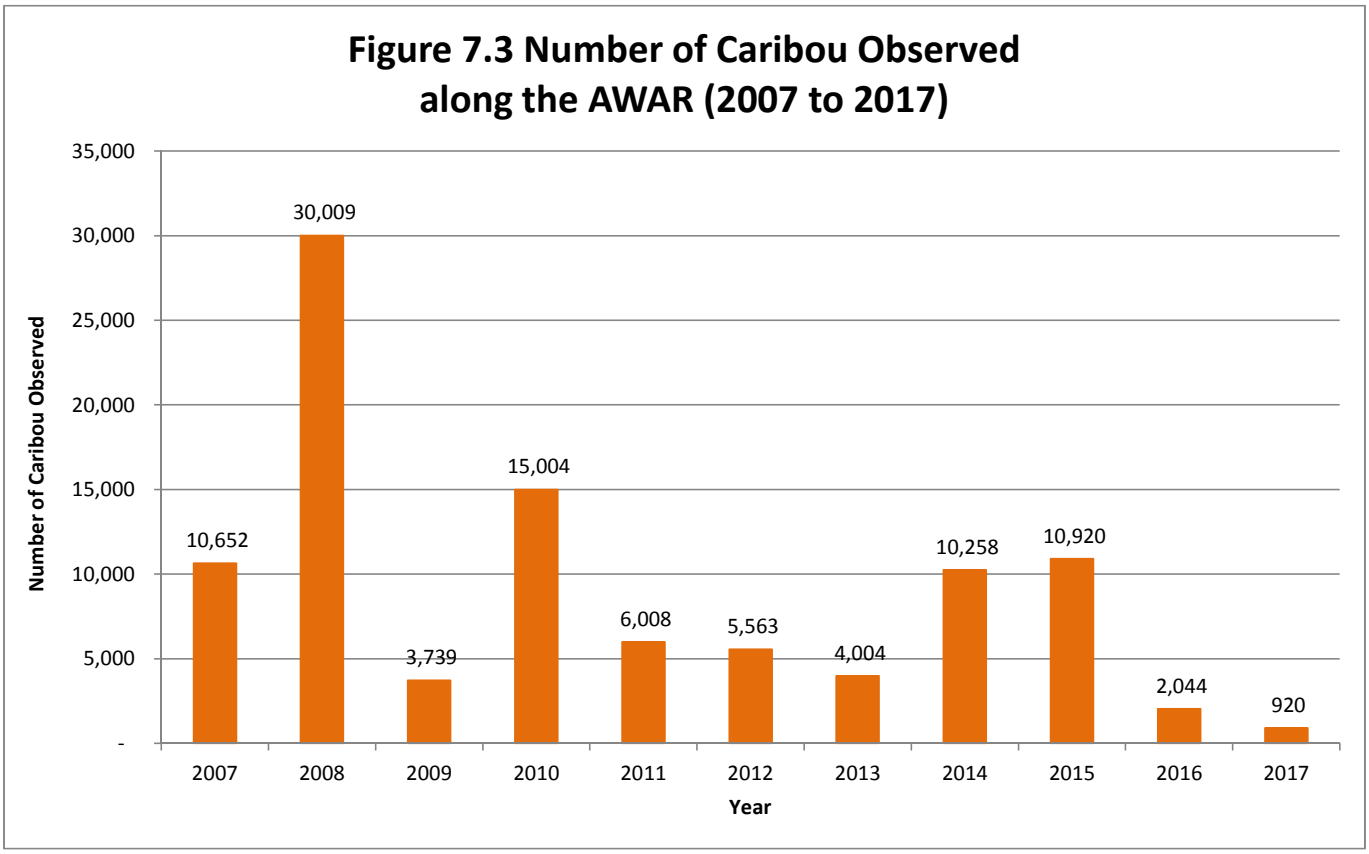


Figure 7.3 Number of Caribou Observed along the AWAR (2007 to 2017)
Number of Caribou Observed
35,000
30,000
25,000
20,000
15,000
10,000
5,000
-
10,652
30,009
3,739
15,004
6,008
5,563
4,004
10,258
10,920
2,044
920
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
Year

Table 7.2: Average Number of Caribou Observed Per Survey Trip from 2007 to 2017.

Month	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
January	0	14.3	12.0	5.3	3.0	5.1	0	3.2	5.8	3.7	8.0
February	0	11.5	10.7	4.1	1.0	5.3	68.1	10.5	7.0	2.3	5.0
March	11.4	11.4	16.7	6.7	6.0	6.0	39.8	10.5	14.4	6.0	5.1
April	14.0	12.7	11.4	10.8	34.0	15.2	0	27.2	22.4	23.8	4.1
May	15.4	12.1	13.0	18.0	25.3	14.2	11.0	8.4	14.1	13.2	0
June	7.1	3.5	8.2	9.0	12.5	3.1	5.3	1.5	6.3	6.9	1.0
July	1.5	13.3	0	1.1	1.0	0	0	0	2.0	0	0
August	1.1	5.4	3.6	5.6	63.0	1.0	1.0	1.0	3.0	2.7	1.6
September	10.8	12.5	8.5	4.8	10.3	1.0	6.5	33.1	12.3	3.3	4.8
October	18.4	44.3	25.4	197.2	71.6	60.0	6.0	101.8	41.5	73.0	63.3
November	72.4	90.7	13.0	106.0	2.3	116.5	455.2	48.4	148.9	2.0	12.1
December	18.4	10.3	11.0	7.9	7.8	169.7	16.8	17.6	275.0	15.7	5.4

Data show the average number of caribou observed for a month of the year, including data from all surveys done that month. Note that data are based on the observed number, which might be more inaccurate for larger groups or groups that are further away.

The following road closures (including along the Amaruq Road, for regional context) were put in effect, with notification to and input provided by the Conservation Officer, HTO and KIA (**Appendix B**):

- 9 August: Amaruq Road closed due to presence of Caribou (~250 to 500 individuals);
- 26 October to 6 November: AWAR closed due to presence of Caribou (~1,500 to 2,000 individuals). Closed for travel at night but some daily convoys allowed. Re-opened early on 6 November at reduced speeds, and fully open by end of day on 6 November;
- 28 to 29 October: Restricted access along the Amaruq Road due to presence of Caribou (~150 individuals);
- 1 to 4 November: Vault Road closed due to the presence of Caribou (~1,500 individuals); and
- 4 November: Amaruq Road closed due to the presence of Caribou (three herds ranging in size from less than 50 to more than 100 individuals). Some daily convoys were allowed.

Agnico Eagle staff was present consistently during the day and monitoring these situations with guidance from the Conservation Officer, HTO and KIA members. Unlike previous years, no road closures were required due to the presence of Muskox herds.

7.6.3 Wildlife Mortality – AWAR

The following wildlife mortalities, associated with the AWAR and Vault Road, were recorded in 2017 (see reports in **Appendix C**):

- One Arctic Hare was reported killed on the AWAR (Km 7) on 10 October;
- One Arctic Hare roadkill was found on the AWAR (Km 84) on 15 October;
- The remains of one Arctic Hare roadkill were found on the AWAR (Km 32) on 14 November;
- Five Arctic Foxes were reported killed on the AWAR in November; four of these Foxes were killed at Km 71 on 28 November, and one Fox was killed at Km 23 on 24 November; and
- Three Common Ravens were killed on the AWAR (Km 23) on 24 November, presumably at the same time as the accident that killed the Fox or shortly thereafter.

Upon discovery of any unreported roadkill remains, environment staff and/or road supervisors reminded employees of road rules and the need to enforce these rules. All employees were informed that wildlife have a right of way at all times, and that they should stop vehicles and wait for wildlife to cross the road.

No Caribou mortality was associated with the AWAR and Vault Road in 2017. Cumulative road kill data along the AWAR are provided in **Table 7.3**.

Table 7.3: Summary of AWAR-related Wildlife Fatality Records (2007 to 2017)

Year	Caribou	Grizzly Bear	Wolverine	Wolf	Fox	Small Mammals	Small Birds	Unidentified Small Animal
2007	3[1]	0	0	0	0	3	3	0
2008	10[2]	0	0	2	13	7	17	0
2009	1[3]	0	0	0	1	6	2	0
2010	1	0	0	0	2	6	2	0
2011	2[3]	0	0	1	0	5	4	0
2012	2[4]	0	1	0	0	3	1	0
2013	5	0	0	0	1	1	1	0
2014	0	0	0	0	0	0	0	0
2015	0	0	0	0	1	4	2	1
2016	0	0	0	0	2	0	1	0
2017	0	0	0	0	5	3	3	0

[1] Two confirmed roadkill cases
[2] Two apparent roadkill cases
[3] Cause of death unconfirmed
[4] One cause of death unknown

7.7 ACCURACY OF IMPACT PREDICTIONS

Table 7.4 provides a summary of the impact predictions identified in the TEMP (Cumberland 2006). The 2017 AWAR and Vault Road survey data were compared to the impact prediction thresholds to evaluate adherence to the impact predictions and the provision of adaptive management, as either a necessary or proactive measure.

7.8 MANAGEMENT RECOMMENDATIONS

The AWAR and Vault Road survey data are important for documenting time periods when the area near the road is utilized by various wildlife species and for evaluating the need, if any, for implementing adaptive management (e.g., temporary road closures and radio announcements). Moreover, Caribou density can be compared graphically across years, which can be used to track changes in density and preferential migration corridors. The sections of AWAR with higher use are prioritized for temporary road closures, speed reductions or additional adaptive management strategies. The AWAR data are used in conjunction with satellite-collaring and mortality data to successfully manage road operations during heavy wildlife use periods.

The number and frequency of AWAR surveys in 2017 demonstrate Agnico Eagle's commitment to avoiding impacts to Caribou from the AWAR and Vault Road, and mitigation measures such as reduced speeds and road closures appear to be minimizing road-related mortality. The AWAR and Vault Road surveys suggest that Caribou migration across the road occurred during late October and early November 2017, observations supported by collar data (**Section 9.6**). Caribou movement patterns continue to require close monitoring and analysis in 2018.

Actions taken in response to the Wolverine mortality on Vault ring road, including employee consequences and reiteration of mine site wildlife protocols, demonstrate the importance that Agnico Eagle places on minimizing road-related wildlife mortality.

Table 7.4: Accuracy of Impact Predictions – Sensory Disturbance and Mortality along the AWAR

Potential Effect	Threshold	Threshold Exceeded (2017)	Adaptive Management Implemented	Status
Sensory Disturbance	Mine-related construction and operation activities will not preclude Caribou and Muskoxen from using suitable habitats beyond 1,000 m of the AWAR.	NO	YES. Road closures and notices. Further analysis ongoing by GN (in partnership with Agnico Eagle)	AWAR/Vault Road Surveys Satellite-collaring Data
Project-related Mortality	Caribou or Muskoxen will not be killed or injured by vehicle collisions. Threshold level of mortality is one individual per year.	NO	YES (speed limits, notices, road closures and convoys)	AWAR/Vault Road Surveys Security Surveys
Project-related Mortality	Predatory mammals will not be killed or injured by vehicle collisions. Threshold level of mortality is one individual per year.	NO	YES (speed limits, notices, road closures and convoys)	AWAR/Vault Road Surveys Security Surveys
Project-related Mortality	Small mammals are susceptible to collisions with vehicles, and some mortality is unavoidable. The threshold level of mortality beyond which adaptive management will be required is 100 small mammals per year.	NO	NO	AWAR/Vault Road Surveys
Project-related Mortality	Raptors will not be killed along the access road. Threshold is one individual because of vehicle collision per year.	NO	NO	AWAR/Vault Road Surveys
Project-related Mortality	Waterbirds will not be killed along the access road. Threshold is one individual because of vehicle collision per year.	NO	NO	AWAR/Vault Road Surveys
Project-related Mortality	Songbirds and other birds are susceptible to collisions with vehicles and windows, and some mortality may occur. The thresholds level of mortality beyond which adaptive management will be required is 50 birds per year.	NO	NO	AWAR/Vault Road Surveys

SECTION 8 • HUNTER HARVEST STUDY

8.1 OVERVIEW

As required in the TEMP (Cumberland 2006), the Baker Lake Hunter Harvest Study (HHS) was initiated in March 2007 by Agnico Eagle in association with the Baker Lake HTO to monitor and document the spatial distribution, seasonal patterns, and harvest rates of hunter kills and angler catches within the Meadowbank LSA.

After low participation during the first year of the study, methods were strategically adapted, participation increased steadily, and valuable information on harvest patterns in the Baker Lake area was collected. The HHS, through regular visits, contributed to developing a strong relationship with local harvesters, the HTO and GN DoE. Data were provided annually in monitoring reports from 2007 to 2015. Lower participant rates and reduced data in 2014 and 2015, likely due to participant fatigue, made it increasingly difficult to determine hunting patterns in the Baker Lake area and along the AWAR, and to answer fundamental questions on the effect of the mine on regional Caribou populations. The HHS was suspended for two years (2016 and 2017) to allow participants to rest and to develop new approaches and direction.

In 2018, Agnico Eagle will continue to explore methods to collect harvest data in consultation with the HTO, KIA, GN, and potentially other agencies.

8.2 OBJECTIVES

In 2018, the objectives of the HHS are to:

1. Facilitate more involvement and partnership with the local community, including the HTO;
2. Involve the GN Conservation Officer or a suitable GN representative;
3. Involve Agnico Eagle's community affairs staff in development and launch; and
4. Ensure consistency and compatibility with the previous HHS.

8.3 METHODOLOGY

The proposed HHS committee, including Elders and members of the KIA, GN, Agnico Eagle, and the Baker Lake HTO, will be initiated in 2018 in advance of the fall Caribou migration. A third-party group will also be a member of the committee and will help facilitate the collection, use and preservation of local observations and community knowledge. This third-party group will be tasked with supporting community-based efforts to direct research and monitoring based on local priorities and information needs, and will provide guidance on opportunities for community-led initiative in the HHS. This group will also work to improve stakeholder linkages. Consistency with historical data will be ensured with Agnico Eagle's involvement.

Existing tools that were successful in reaching hunters in previous studies will be combined with new methods and best practices as part of a new HHS methodology. The use of new technology will also be incorporated to facilitate participation and reach hunters of the new generation.

In 2017, all stakeholders met and agreed to participate in the HHS committee. Kick-off meetings and information sessions were completed to ensure a 2018 implementation. A fully integrated HHS is proposed to be underway by the end of the second quarter of 2018.

SECTION 9 • CARIBOU SATELLITE-COLLARING PROGRAM

9.1 OVERVIEW

Agnico Eagle continues to participate in and provide funding for the GN DoE Caribou satellite-collaring program that includes data collected within the Meadowbank RSA, as per the recently renewed (2017) Memorandum of Understanding with government partners. The GN biologists discuss collar deployments with hunters and Elders and get approval prior to proceeding. Discussions are ongoing between Agnico Eagle, GN, and other partners on the best path forward to ensure Caribou maps continue to integrate Elders and local HTO input.

Information pertaining to the identification and location of various herds that use the RSA at different times of the year are important components of ongoing monitoring and management efforts at the mine site and along the AWAR.

9.2 OBJECTIVES

The satellite-collaring program was developed to provide information on the distribution of Caribou occurring within the Meadowbank RSA and contribute data to ongoing satellite-collaring programs for the Ahiak, Qamanirjuaq, and other herds. The satellite-collaring program, along with GN DoE regional data, is an important monitoring and management tool that provides a regional perspective on Caribou activity near mine operations.

9.3 DURATION

The satellite-collaring program was initially designed to continue for five consecutive years in accordance with the TEMP (Cumberland 2006), but collar monitoring has continued beyond this period. Caribou in the Baker Lake area were first collared in May 2008, and the program has continued for more than a decade. Monitoring of collars will continue in 2018.

9.4 METHODOLOGY

Caribou are carefully netted by the contracted satellite-collaring crew via helicopter and fitted with either an Advanced Research and Global Observation Satellite (ARGOS) GPS Type IV or Iridium satellite-collar. Collar data are regularly[1] retrieved electronically via satellite and distributed to GN DoE and Nunavut Environmental personnel by CLS America, the data-management company.

Deployed collar data were included in a population distribution analysis completed for the GN (Nagy et al. 2011). The clustering and movements of each collar are examined and assigned to the sub-population (i.e., Ahiak, Beverly, Lorillard, Qamanirjuaq, and Wager Bay) that best fits that collar's movement characteristics.

[1] Data are often retrieved on a daily basis but may vary depending on signal strength and weather conditions.

9.5 HISTORICAL RESULTS

Collaring was originally scheduled to commence in 2007 but was postponed for one year due to logistical constraints. Seven deployments have been completed in the area around Baker Lake since Agnico Eagle became involved in the collaring program, with the following number of collars successfully deployed:

- 9 collars (Agnico Eagle) in May 2008;
- 21 collars (shared by Agnico Eagle and AREVA) in November 2009;
- 13 collars (Agnico Eagle) in April 2011;
- 15 collars (shared by Agnico Eagle and AREVA) in April 2013;
- 10 collars (Agnico Eagle) in April 2015; and
- 13 collars (Agnico Eagle) in May 2016.

Historical collar data have all been assigned to one of the five major sub-populations, as discussed above. Also included in **Section 9** figures are collared Caribou from the Qamanirjuaq herd, which are part of a separate GN program. These telemetry data are included because of the proximity of animals of this herd to the Meadowbank RSA.

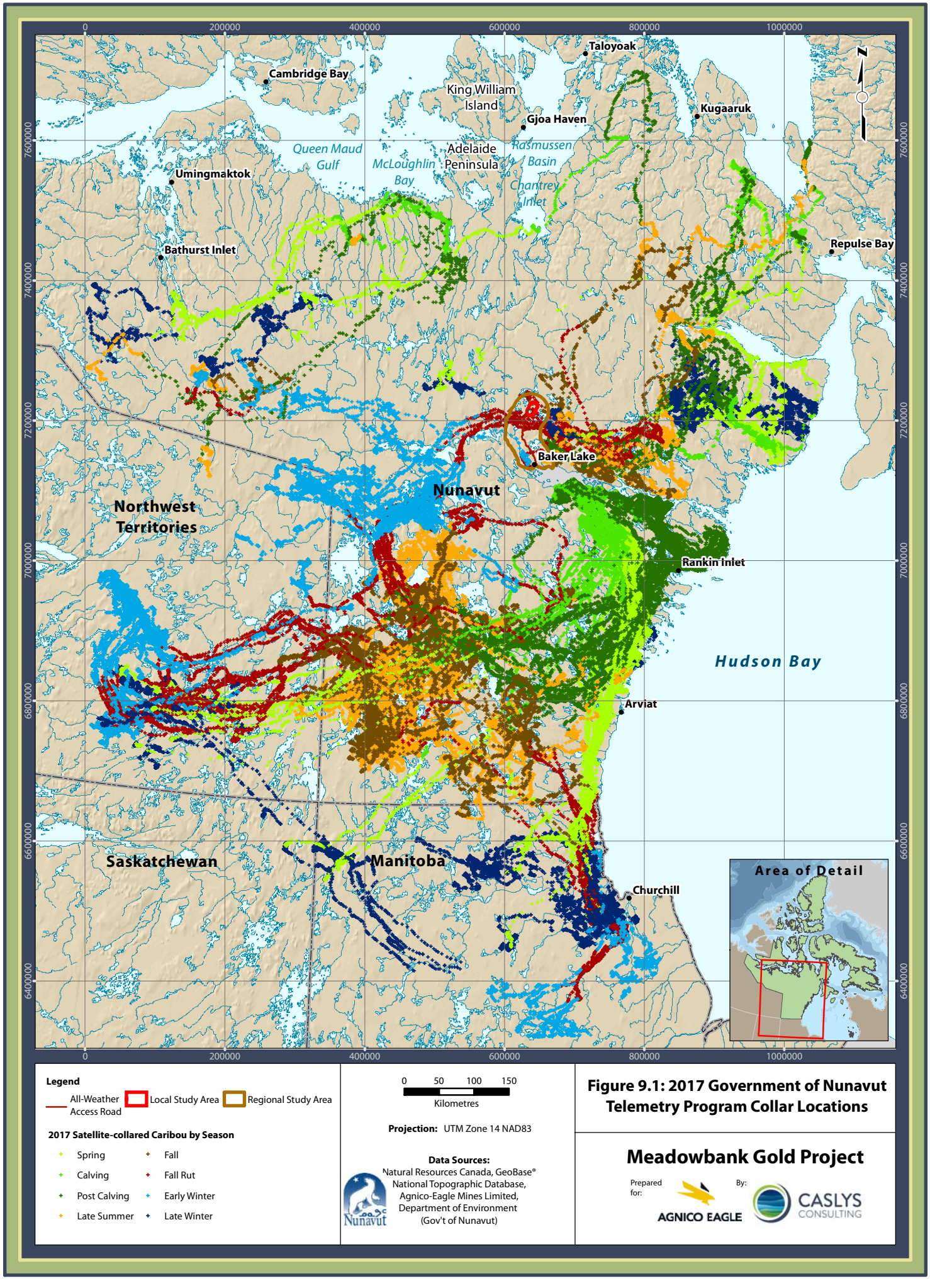
9.6 2017 RESULTS

At the beginning of the 2017 monitoring year, 24 collars were active, including seven collars from the 2013 deployment that were active from January until October. As of December 2017, only 11 collars were active, including five from the 2015 deployment and six from the 2016 deployment. The location of Caribou and fuel caches prevented the deployment of additional collars in the Baker Lake area in 2017; more collars are planned to be deployed in this area in 2018. A summary of 2017 locations and movement patterns for animals collared around Baker Lake is provided below and summarized in **Figure 9.1**. Movements of collared Caribou in close proximity to the Meadowbank RSA and LSA in 2017 are shown in **Figure 9.2**.

Movements for Qamanirjuaq herd collared animals, a program also supported by Agnico Eagle, are provided for context. In 2017, an additional 35 animals were collared under this program, and a total of 75 collars were active and monitoring movements of the Qamanirjuaq herd at the end of 2017. Seasonal movements of all collared Caribou are discussed below.

Late Winter (January 1 to March 31)

A large group of animals collared around Baker Lake was found to the east of the LSA during the late winter season in the region between Chesterfield Inlet and Ukkusiksalik National Park, which is within the historical wintering areas for Caribou from the Lorillard and Wager Bay herds (**Figure 9.3**). The other large group of collared animals was those from the Qamanirjuaq herd, which were recorded in northern Manitoba and Churchill during this period, presumably within the tree line. A few collared animals were found in northern Saskatchewan (Beverly herd) and south of Bathurst Inlet (Ahiak herd).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Taloyoak
Cambridge Bay
King William Island
Gjoa Haven
Kugaaruk
Queen Maud Gulf
McLoughlin Bay
Adelaide Peninsula
Rasmussen Basin
Chantrey Inlet
Umingmaktok
Bathurst Inlet
Repulse Bay
Baker Lake
Nunavut
Northwest Territories
Rankin Inlet
Hudson Bay
Arviat
Saskatchewan
Manitoba
Churchill
Area of Detail
Legend
All-Weather Access Road
Local Study Area
Regional Study Area
2017 Satellite-collared Caribou by Season
Spring
Calving
Post Calving
Late Summer
Fall
Fall Rut
Early Winter
Late Winter
0 50 100 150
Kilometres
Projection: UTM Zone 14 NAD83
Data Sources:
Natural Resources Canada, GeoBase®
National Topographic Database,
Agnico-Eagle Mines Limited,
Department of Environment
(Gov't of Nunavut)
Nunavut
Figure 9.1: 2017 Government of Nunavut Telemetry Program Collar Locations
Meadowbank Gold Project
Prepared for:
AGNICO EAGLE
By:
CASLYS CONSULTING

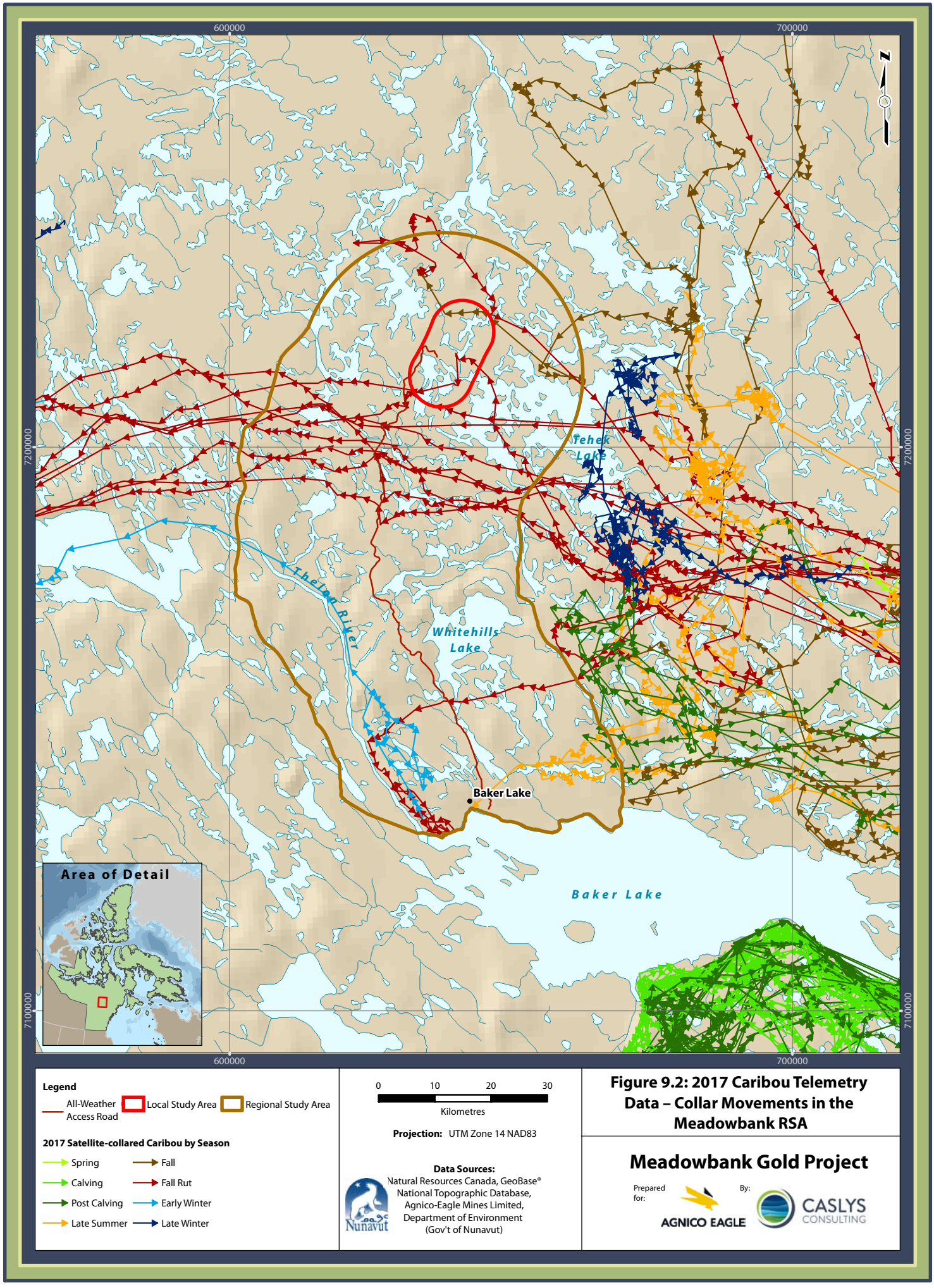
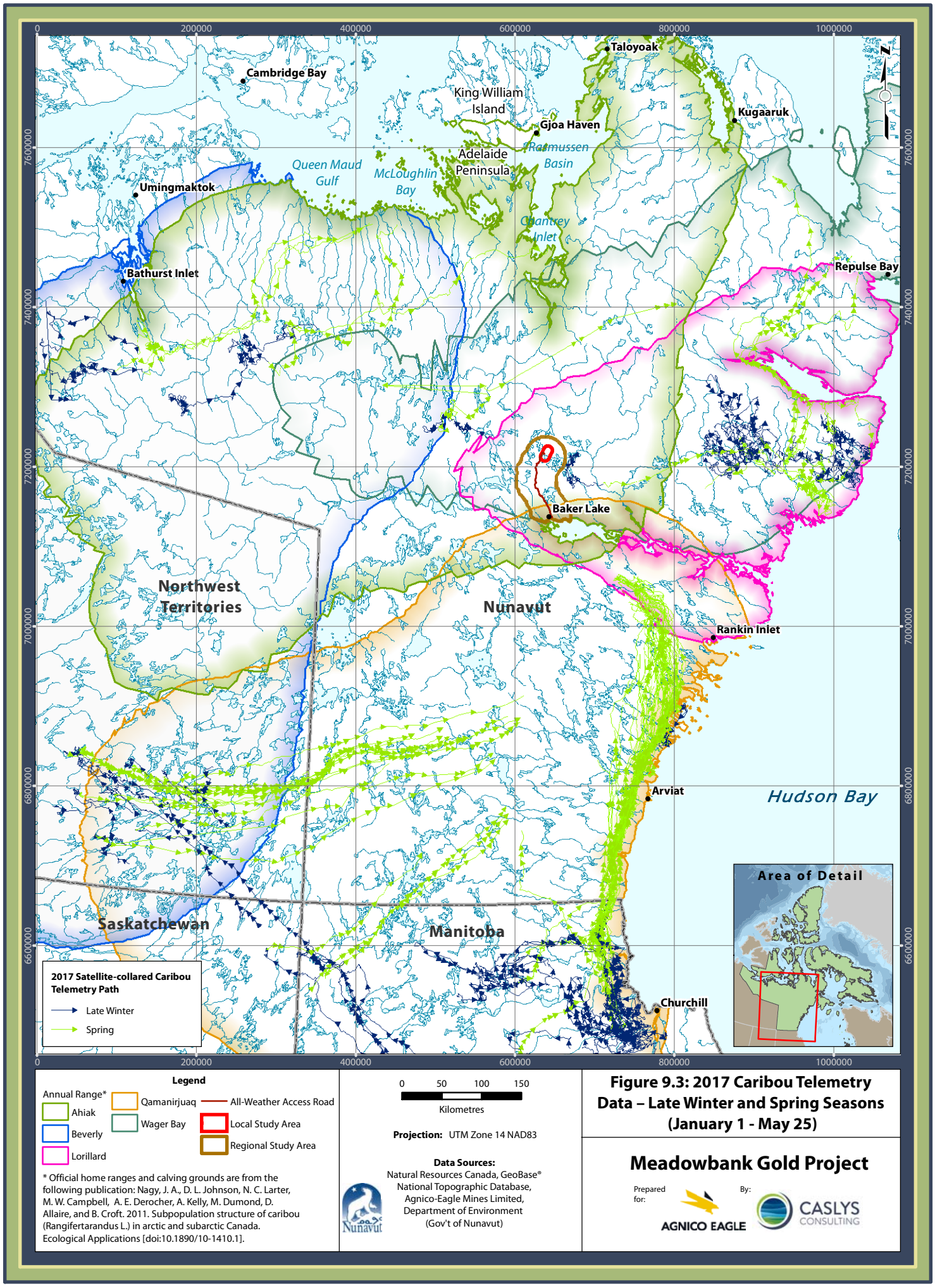


Figure 9.2: 2017 Caribou Telemetry Data – Collar Movements in the Meadowbank RSA

Meadowbank Gold Project

Prepared for: AGNICO EAGLE

By: CASLYS CONSULTING



Legend

Annual Range*
- Ahiak
- Beverly
- Lorillard
- Qamanirjuaq
- Wager Bay
- All-Weather Access Road
- Local Study Area
- Regional Study Area

* Official home ranges and calving grounds are from the following publication: Nagy, J. A., D. L. Johnson, N. C. Larter, M. W. Campbell, A. E. Derocher, A. Kelly, M. Dumond, D. Allaire, and B. Croft. 2011. Subpopulation structure of caribou (Rangifertarandus L.) in arctic and subarctic Canada. Ecological Applications [doi:10.1890/10-1410.1].

0 50 100 150
Kilometres

Projection: UTM Zone 14 NAD83

Data Sources:
Natural Resources Canada, GeoBase®
National Topographic Database,
Agnico-Eagle Mines Limited,
Department of Environment
(Gov't of Nunavut)

Figure 9.3: 2017 Caribou Telemetry Data – Late Winter and Spring Seasons (January 1 - May 25)

Meadowbank Gold Project

Prepared for: AGNICO EAGLE

By: CASLYS CONSULTING

To date, Caribou collared in the Baker Lake area have not been present within the Meadowbank LSA or RSA during the late winter season; however, historical data for other satellite-collared animals have shown wintering Caribou from the Lorillard, Wager Bay, and Qamanirjuaq herds as occurring within the Meadowbank RSA. In 2017, one individual, which was observed close but outside of the RSA in the area south and west of Tehek Lake, headed east to join the Lorillard/Wager Bay herd for the spring season. Mine site ground surveys did not observe notable Caribou presence during the late winter season and no deterrence was required to protect Caribou during this period (**Section 6.5** and **Appendix A**). The late winter activity typically observed west of the RSA in the Aberdeen Lake area was minimal and further north in 2017.

Spring (April 1 to May 25)

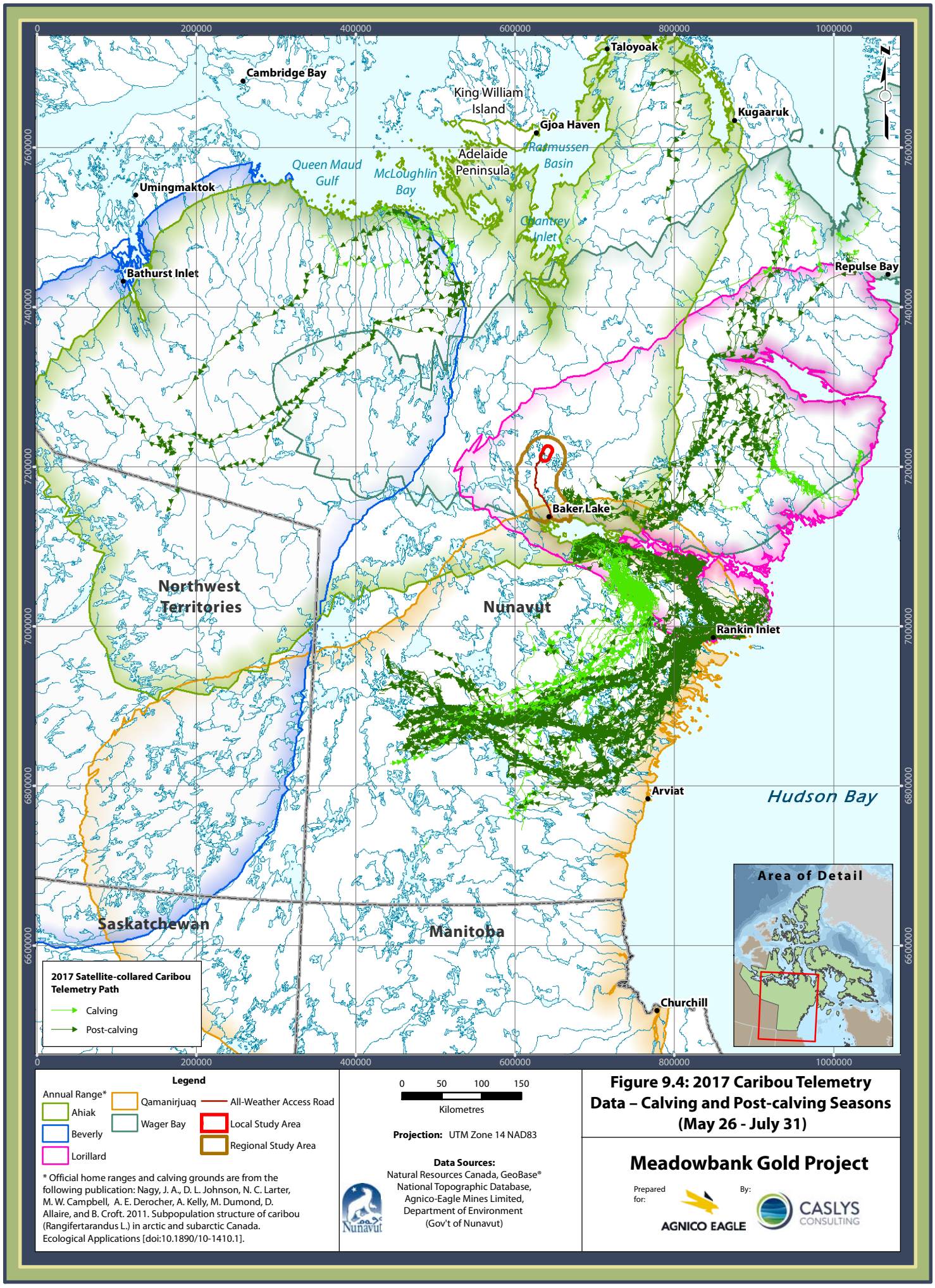
No collared animals were present in and around the Meadowbank RSA and LSA during spring 2017 (**Figure 9.3**). The only collared animal observed in late winter north of Aberdeen Lake moved in a direction much further north of the RSA during the spring, towards Repulse Bay and the Wager Bay herd calving grounds. The collared animal recorded near Tehek Lake during late winter headed further east of the RSA in spring towards the Lorillard herd calving grounds.

In previous years, collared Caribou have migrated through the northern portion of the Meadowbank RSA (and LSA), sometimes requiring mitigative road closures such as in 2016. In 2016, four collared Caribou migrated through the RSA and LSA during spring following late winter activity north of Aberdeen Lake. Two of these collars are no longer active. The remaining two collars were part of the herd that appeared to deflect away from the AWAR in the fall of 2016, did not return to the Aberdeen Lake area, and instead overwintered to the east of the RSA. These two collars remain active. After spending the calving season in their regular territory, they migrated across the AWAR during the fall rut and overwintered north and south of Aberdeen Lake (see below).

Collared individuals wintering in the Bathurst Inlet area moved toward the Beverly and Ahiak calving grounds but did not migrate near the Meadowbank RSA (**Figure 9.3**). Qamanirjuaq collared animals underwent an extensive northward migration from all wintering areas to calving grounds between Rankin Inlet and Arviat. All Caribou collared in the Baker Lake area remained within areas frequented historically by Ahiak, Wager Bay, and Lorillard herds (see ranges in **Figure 9.3**).

Calving (May 26 to June 25)

No collared animals occurred within the Meadowbank RSA during the 2017 calving season. The Baker Lake collared animals headed to calving grounds between Chesterfield Inlet and Wager Bay (Lorillard herd), and north of Repulse Bay (Wager Bay herd) (see **Figure 9.4**). Most of the collared Caribou from the Qamanirjuaq herd remained near their traditional calving grounds, but in 2017 more activity was observed northwest of Rankin Inlet near the southern shores of Chesterfield Inlet during the calving and post-calving seasons. Other collared Caribou (Ahiak herd) spent the calving season south of Adelaide Peninsula, in the vicinity of Mcloughlin Bay (**Figure 9.4**).



Legend

Annual Range*
- Ahiak
- Beverly
- Lorillard
- Qamanirjuaq
- Wager Bay
- All-Weather Access Road
- Local Study Area
- Regional Study Area

* Official home ranges and calving grounds are from the following publication: Nagy, J. A., D. L. Johnson, N. C. Larter, M. W. Campbell, A. E. Derocher, A. Kelly, M. Dumond, D. Allaire, and B. Croft. 2011. Subpopulation structure of caribou (Rangifertarandus L.) in arctic and subarctic Canada. Ecological Applications [doi:10.1890/10-1410.1].

0 50 100 150
Kilometres

Projection: UTM Zone 14 NAD83

Data Sources:
Natural Resources Canada, GeoBase® National Topographic Database, Agnico-Eagle Mines Limited, Department of Environment (Gov't of Nunavut)

Figure 9.4: 2017 Caribou Telemetry Data – Calving and Post-calving Seasons (May 26 - July 31)

Meadowbank Gold Project

Prepared for: AGNICO EAGLE

By: CASLYS CONSULTING

Post-Calving (June 25 to July 31)

Collared Caribou generally started moving south and west from their calving grounds during this period. Collared animals from the more northern Wager Bay calving grounds moved south, joining Lorillard herd animals between Wager Bay and Chesterfield Inlet (**Figure 9.4**). For most of the post-calving season, collared Caribou were not recorded within the Meadowbank LSA or RSA. Four collared animals were found east of Whitehills Lake by the end of the season and two animals briefly crossed into the boundary of the RSA further south towards Baker Lake around this time. These animals had moved west from the Lorillard herd calving grounds. Mine survey records indicate that only solitary animals were infrequently observed around the mine site in June and July (**Appendix A**).

Collared animals from the Qamanirjuaq herd were found north along the southern edge of Chesterfield Inlet and Baker Lake, and around south-central areas between Rankin Inlet and Arviat (**Figure 9.4**).

Late Summer (August 1 to September 15)

Individuals from the Lorillard herd generally remained in the area east of Whitehills and Tehek Lake, well away from the Meadowbank RSA. Similar areas of activity were observed during late summer in 2016, although more movement was observed into the RSA between Whitehills and Tehek Lake. One collared animal crossed into the RSA in 2017, further south near Baker Lake at the end of the season. No animals crossed the AWAR in late summer. Most observations from mine site records during this period were for Caribou along the Amaruq Road (**Section 6.5**). Animals presumably from the Wager Bay herd spent late summer further north near Repulse Bay.

Qamanirjuaq collared animals spread out considerably during this period, occurring from the south side of Chesterfield Inlet to southeastern Nunavut (**Figure 9.5**).

Fall (September 16 to October 14)

Less activity was observed in and around the RSA during the 2017 fall season. One collared animal crossed into the mine LSA during fall, spending the first part of the fall rut in the northern portion of the RSA before heading southwest. Another collared animal was observed near the RSA around Baker Lake before heading further west for the fall rut. In 2016, more movement was observed in the RSA on the east side of the AWAR between Baker Lake and Whitehills Lake. Fall movement for Baker Lake collared animals was generally situated further west in 2017. A herd of 1,000 Caribou was observed near the AWAR on 12 October, and smaller herds of 200 to 400 individuals were observed the following days (**Appendix A**). No road closures or other mitigative measures were needed for Caribou protection along the AWAR during this period.

Collared Qamanirjuaq animals generally stayed in the same area as during the late summer period (**Figure 9.5**).

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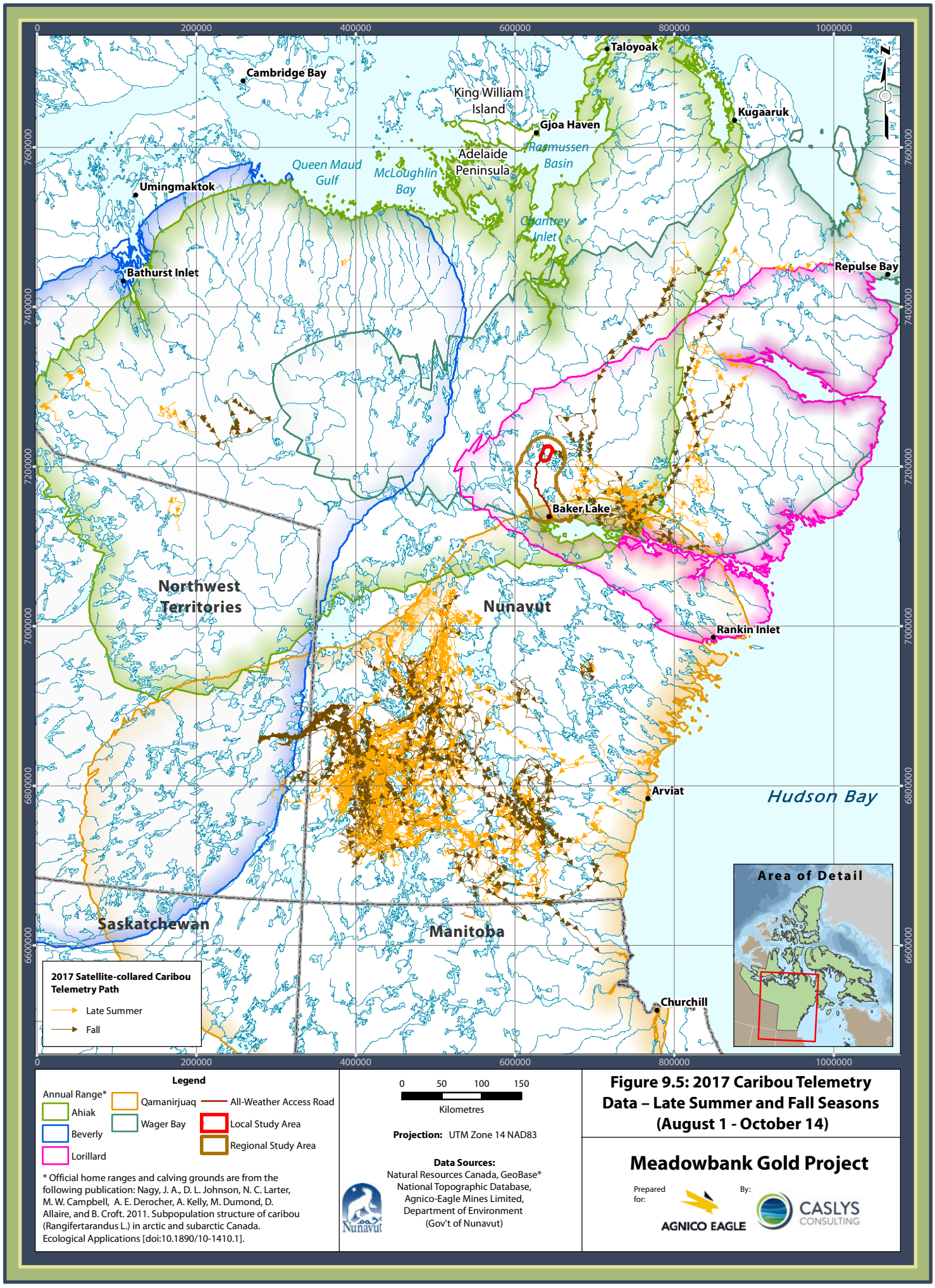
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Taloyoak
Cambridge Bay
King William Island
Gjoa Haven
Kugaaruk
Adelaide Peninsula
Rasmussen Basin
Queen Maud Gulf
McLoughlin Bay
Umingmaktok
Chantrey Inlet
Bathurst Inlet
Repulse Bay
Baker Lake
Northwest Territories
Nunavut
Rankin Inlet
Arviat
Hudson Bay
Saskatchewan
Manitoba
Churchill
Area of Detail
2017 Satellite-collared Caribou Telemetry Path
Late Summer
Fall
Legend
Annual Range*
Ahiak
Beverly
Lorillard
Qamanirjuaq
Wager Bay
All-Weather Access Road
Local Study Area
Regional Study Area
* Official home ranges and calving grounds are from the following publication: Nagy, J. A., D. L. Johnson, N. C. Larter, M. W. Campbell, A. E. Derocher, A. Kelly, M. Dumond, D. Allaire, and B. Croft. 2011. Subpopulation structure of caribou (Rangifertarandus L.) in arctic and subarctic Canada. Ecological Applications [doi:10.1890/10-1410.1].
0 50 100 150
Kilometres
Projection: UTM Zone 14 NAD83
Data Sources:
Natural Resources Canada, GeoBase®
National Topographic Database,
Agnico-Eagle Mines Limited,
Department of Environment
(Gov't of Nunavut)
Nunavut
Figure 9.5: 2017 Caribou Telemetry Data – Late Summer and Fall Seasons (August 1 - October 14)
Meadowbank Gold Project
Prepared for:
AGNICO EAGLE
By:
CASLYS CONSULTING

Fall Rut (October 15 to November 7)

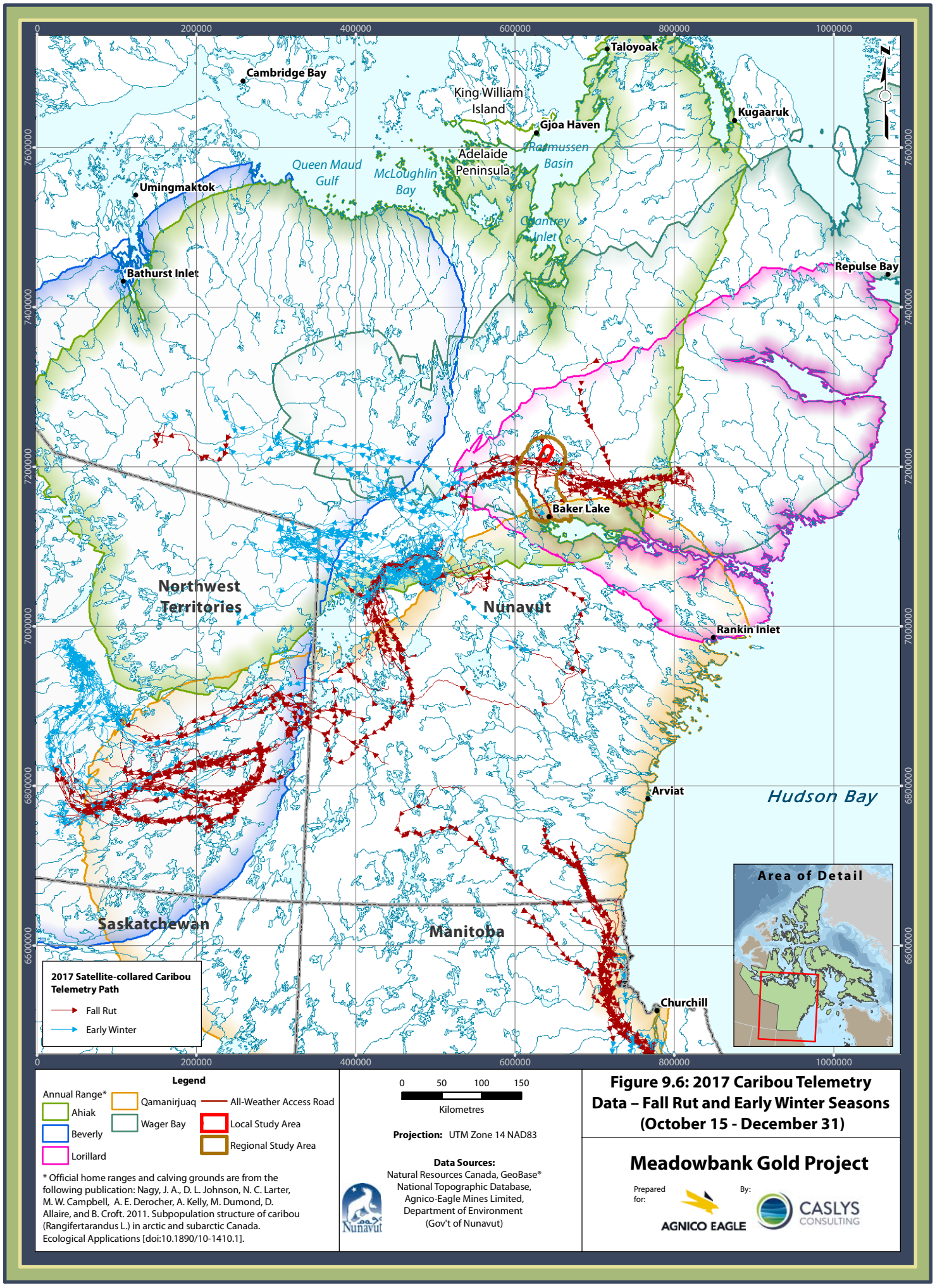
The fall rut was the season with the most activity of collared Caribou in the RSA, which were found mostly between Whitehills Lake and the Mine LSA. Ten collared animals crossed the AWAR in this area (and some of these entered the Mine LSA) between 29 October and 4 November (**Figure 9.6**); these animals were all collared during the 2015 and 2016 deployments. Two of these collared Caribou appeared to have deflected away from the AWAR during the fall of 2016 and atypically overwintered further east of the RSA; however, they spent the calving season in their traditional areas and were part of the herd that crossed the AWAR during the fall rut of 2017 to return towards Aberdeen Lake. Herds of up to 1,000 Caribou were observed during this period (**Appendix A**), and the AWAR, Vault Road and Amaruq Road were all closed or under restricted access at different times between 26 October and 6 November. One collared animal went north of the Mine LSA near Amaruq Road, then turned around and headed east. One collared individual also crossed the AWAR south of Whitehills, heading towards the Thelon River for early winter. In comparison, only one collared animal was observed in the RSA during the fall rut of 2016 and did not cross the AWAR. One collared animal remained within the Meadowbank RSA at the end of the fall rut, west of Baker Lake.

During the fall rut season, collared Caribou were generally distributed in four discrete areas. The Lorillard herd was observed east of Baker Lake and north of Chesterfield Inlet. The Qamanirjuaq herd was observed in the other three areas: 1) northern Manitoba and coastal areas south of Arviat and around Churchill; 2) northern Saskatchewan; and 3) around Dubawnt Lake (**Figure 9.6**). All of these collared animals travelled from the Qamanirjuaq calving grounds. In 2017, only one collared animal was present in the area frequented by the Ahiak or Beverley herd, southeast of Bathurst Inlet

Early Winter (November 8 to December 31)

The early winter activity observed in 2016 around Tehek Lake was not observed in 2017. Collared animals that had crossed the Meadowbank RSA and AWAR spent the early winter around Aberdeen Lake. Only one collared individual was in the RSA during early winter, west of the AWAR, and travelled north along the east bank of the Thelon River (**Figure 9.6**). All 11 collars active during this period were from the 2015 and 2016 deployments.

Other collared animals from the Qamanirjuaq herd were further south between Dubawnt Lake and Baker Lake, and further west into the Northwest Territories.



Legend

Annual Range*
- Ahiak
- Beverly
- Lorillard
- Qamanirjuaq
- Wager Bay
- All-Weather Access Road
- Local Study Area
- Regional Study Area

* Official home ranges and calving grounds are from the following publication: Nagy, J. A., D. L. Johnson, N. C. Larter, M. W. Campbell, A. E. Derocher, A. Kelly, M. Dumond, D. Allaire, and B. Croft. 2011. Subpopulation structure of caribou (Rangifertarandus L.) in arctic and subarctic Canada. Ecological Applications [doi:10.1890/10-1410.1].

0 50 100 150

Kilometres

Projection: UTM Zone 14 NAD83

Data Sources:
Natural Resources Canada, GeoBase® National Topographic Database, Agnico-Eagle Mines Limited, Department of Environment (Gov't of Nunavut)

Figure 9.6: 2017 Caribou Telemetry Data – Fall Rut and Early Winter Seasons (October 15 - December 31)

Meadowbank Gold Project

Prepared for: AGNICO EAGLE

By: CASLYS CONSULTING

All Seasons

An overview of collared Caribou distribution in 2017 for all seasons is provided in **Figure 9.1.** These data include all remaining active collars from 2013 (only active from January to October), 2015, and 2016 deployments around the Baker Lake area. General trends in seasonal distribution are evident and are generally comparable to findings from previous years for animals collared in this area. Collared Caribou calved (medium green symbol) in four distinct areas: 1) around McLoughlin Bay and Rasmussen Basin and Kugaaruk (Ahiak herd); 2) north and west of Repulse Bay (Wager Bay herd); 3) between Chesterfield Inlet and Wager Bay, towards Hudson Bay (Lorillard herd); and 4) south of Chesterfield Inlet in the traditional calving grounds of the Qamanirjuaq herd. By the end of 2017, collared animals were congregated either between Aberdeen Lake and Dubawnt Lake, or on Qamanirjuaq wintering grounds in the Northwest Territories or around Churchill. Only a few collared Caribou returned to the area south of Bathurst Inlet in 2017.

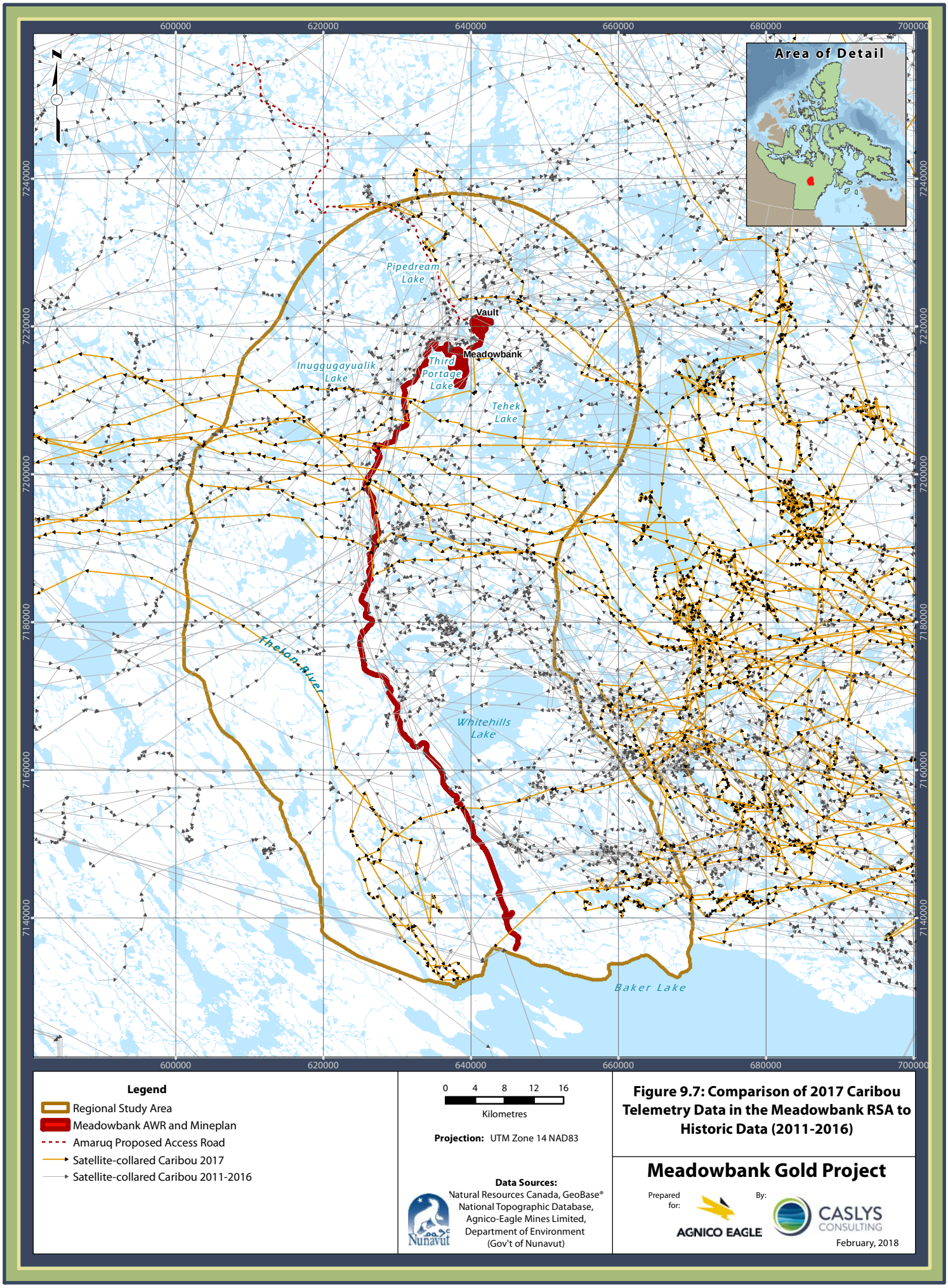
As in most monitoring years to date, no collared Caribou were found within the Meadowbank RSA during the calving or post-calving seasons. In addition, no collared individuals were found in the RSA during either the spring or late winter. Within the Meadowbank RSA, collared Caribou were present predominantly during the fall rut, with some minor presence in late summer, fall, and early winter. Unlike 2016, collared Caribou appeared to be less restricted in their movements and several individuals crossed the AWAR and carried on to wintering areas near Aberdeen Lake and beyond (**Figure 9.2**). No collared Caribou moved around or across the Meadowbank RSA during spring migration, possibly because of no collared animal having crossed the AWAR in 2016 to return to Aberdeen Lake area overwintering grounds.

At the end of 2017, 11 satellite collars originally deployed near Baker Lake continued to be active and tracked, with results being downloaded on a regular basis. Caribou collaring maps are posted at the Meadowbank mine site for staff to observe; however, maps are slightly out of date and do not depict current locations (i.e., in order not to facilitate hunting pressure).

9.7 CARIBOU MIGRATION PATTERNS

A summary of Caribou migration patterns, which synthesizes migration information from satellite-collaring data to 2012 and was developed by the GN for the spring and fall migrations, was provided in the 2014 annual report. The seasonal range maps are currently being updated by the GN and will include an update on migration corridors. As these figures have not been updated, they are not discussed in this year's report.

Figure 9.7 shows all walk lines of collared Caribou within the Meadowbank RSA since 2011 (i.e., seven years of data). Collared animals are observed throughout the RSA (typically around spring and fall migratory periods, although spring movement was not observed in 2017), but more movement has been recorded on the western side of the AWAR since data collection began in 2011. A pattern of animals being deflected from the AWAR appeared evident based on an analysis of data from 2011 to 2016. This pattern was not as evident when comparing 2017 movement in the RSA to comparable historic data (**Figure 9.7**).



Legend

- Regional Study Area
- Meadowbank AWR and Mineplan
- Amaruq Proposed Access Road
- Satellite-collared Caribou 2017
- Satellite-collared Caribou 2011-2016

0 4 8 12 16

Kilometres

Projection: UTM Zone 14 NAD83

Data Sources:
Natural Resources Canada, GeoBase® National Topographic Database, Agnico-Eagle Mines Limited, Department of Environment (Gov't of Nunavut)

Figure 9.7: Comparison of 2017 Caribou Telemetry Data in the Meadowbank RSA to Historic Data (2011-2016)

Meadowbank Gold Project

Prepared for: AGNICO EAGLE

By: CASLYS CONSULTING

February, 2018

9.8 ACCURACY OF IMPACT PREDICTIONS

A summary of the impact predictions identified in the TEMP is provided in **Table 9.1**. The 2017 satellite-collaring data were compared to the impact prediction thresholds to evaluate adherence to the impact predictions and the provision of adaptive management, as either a necessary or proactive measure.

Table 9.1: Accuracy of Impact Predictions – Satellite-collaring Data

Potential Effect	Threshold	Threshold Exceeded (2017)	Adaptive Management Implemented	Status
Sensory Disturbance	Mine-related construction and operation activities will not preclude Caribou and Muskoxen from using suitable habitats beyond 500 m of mine buildings, facilities and roads. Threshold is unnatural caribou use patterns beyond 1,000 m.	NO	YES. Road closures and notices. Ongoing analysis by GN (in partnership with Agnico Eagle)	Satellite-collaring data Daily and weekly mine-site ground surveys AWAR Road Surveys
Hunting by Baker Lake Residents	Caribou herds will not be significantly affected by year-round access to the RSA.	Not Completed in 2017	NA	Satellite-collaring data Hunter Harvest Study

9.9 MANAGEMENT RECOMMENDATIONS

The satellite-collaring data depict Caribou movements within and through the Meadowbank RSA and LSA during the late summer, fall, and early winter seasons, with no occurrences during the other seasons. Most of this activity was observed during the fall rut, at which time 10 collared individuals crossed the AWAR with only minor deflections. In contrast, 2015 and 2016 collar data indicated that the AWAR appeared to be altering natural movement patterns of collared Caribou. More detailed analysis of Caribou monitoring, collar data, hunter harvest activity, and other potential influences on Caribou movement and migration is ongoing by regulatory agencies and other interested parties to further analyze project-related effects on Caribou movement. In particular, a 2017 report completed for Agnico Eagle evaluated potential impacts associated with AWAR, noting the lack of alternative hypotheses as well as acknowledging the inherent challenges with the Caribou telemetry dataset (Golder 2017).

The program would benefit from additional collars deployed in the Baker Lake area, as currently only 11 collars remain active.

Agnico Eagle environment department should continue to closely monitor Caribou movement in the weeks leading up to spring and fall migrations using the latest available satellite-collaring and AWAR survey data as well as incidental reports from staff utilizing the AWAR on a regular basis (e.g., security personnel). As in previous years, notification and announcements, staff re-education, specific dispatch protocols, and temporary road closures should continue to be implemented, as a proactive adaptive management strategy.

SECTION 10 • SUMMARY

The 2017 Wildlife Monitoring Summary Report describes the data collected to date from the various monitoring programs and describes natural and mine-related variability and potential mine-related effects within wildlife populations.

In 2017, monitoring efforts continued to focus on areas immediately around the mine site, and AWAR and Vault Road. At this local scale and within this year's work plan, emphasis was on evaluating current habitat losses, monitoring presence and success of raptors, and monitoring and managing wildlife presence near the mine facilities and infrastructure. More regional-scale monitoring efforts focused on Caribou movement through ongoing satellite-collaring studies. A summary of potential project effects, threshold levels, and the 2017 monitoring results is provided in **Table 10.1**.

An analysis of mine-related habitat loss has determined that losses have exceeded predicted and approved amounts, and that High suitability habitat thresholds for all VECs except waterbirds have been exceeded. A more inclusive habitat loss assessment (i.e., inclusive of Phaser Lake and other minor extensions) will be included in the 2018 annual report. Potential habitat mitigation will be determined following the 2018 habitat loss analysis.

Collared Caribou crossed the AWAR during the 2017 fall migration and headed to early winter areas north of Aberdeen Lake. No movement was observed in and around the RSA during spring, and minimal activity was observed in the RSA throughout most of the year. Lower than typical Caribou numbers were recorded along the AWAR during regular surveys. Possible disruption of Caribou movement patterns, especially from the AWAR, continues to be a concern when looking at cumulative data since 2008. Further analysis is ongoing to determine if project-related effects have occurred. A 2017 report completed for Agnico Eagle evaluated potential impacts associated with the AWAR, noting the lack of alternative hypotheses as well as acknowledging the inherent challenges with the Caribou telemetry dataset (Golder 2017). Discussions with HTO and GN personnel will continue in 2018 to address the need for more targeted monitoring or analysis of Caribou movement in the area around Meadowbank, including hunter harvest activity and continued mitigation strategies. By the end of 2017, only 11 collars remained active, which provides limited data for monitoring Baker Lake herds.

In 2017, one Wolverine was killed because of mine-related activity, thereby exceeding the threshold level for mine site or road-related mortalities for predatory mammals (i.e., Grizzly Bear and Wolverine only). In addition, two Wolves needed to be euthanized under authorization by the GN Conservation Officer. Grizzly Bears were observed near Meadowbank in April and June, but no deterrence was required. Proactive closure of the AWAR was required in the late fall of 2017 to permit the passage of migrating Caribou. No road or mine-related mortality of Caribou occurred in 2017.

Monitoring programs will continue to evolve throughout the life of the mine, contingent on data quality objectives and the necessity for adaptive management strategy implementation and subsequent effectiveness monitoring. Adjustments to the intensity and frequency of monitoring, and the extent of statistical analyses will vary between years depending on observed trends to date, data gap analysis, and determinations of effect.

Table 10.1: Potential Project Effects, Thresholds, and Results of Monitoring in 2017.

Potential Effect	Thresholds	Monitoring Methods	Frequency	Completed in 2017	Threshold Exceeded (2017)
Vegetation (Wildlife Habitat)					
Habitat Loss	Mine Site – 867 ha AWAR – 281ha	Ground Surveys, Mapping, GIS Analysis	Every three years (next is 2020)	YES	YES
Habitat Degradation by Contamination	See SLRA 2014	Vegetation and Soil Samples	Every three years	NO	NA
Habitat Reclamation following Mine Closure	NA	Ground Surveys, Vegetation Plots, Mapping	Every three years to 11 years post-closure	NO	NA
Ungulates					
Habitat Loss and Degradation	Growing – 240 ha of High Suitability Habitat Winter – 191 ha of High Suitability Habitat	Ground Surveys, Mapping, GIS Analysis	Every three years (next in 2020)	YES	YES
Sensory Disturbance	Mine Site - 500m AWAR – 1,000m	Ground Surveys, Satellite-collaring	Daily / weekly	YES	POSSIBLE Indication of disturbance from cumulative data (follow up work by GN on road-related effects)
Vehicle Collisions	1 individual	Ground surveys, Collision Reporting System	Mine site – daily AWAR - >1/week	YES	NO No mortality in 2017
Hunting by Baker Lake Residents	20% Change in Harvest Patterns in RSA from Historic	Hunter Harvest Study	Yearly	NO	NA Hunter Harvest Study was suspended in 2016 and 2017, but will continue in 2018
Other Mine-related Mortality	1 individual	Ground surveys	Daily	YES	NO No mortality at mine in 2017
Exposure to Contaminated Water or Vegetation	See SLRA 2014	Vegetation and Soil Samples	Every three years	NO	NA

Table 10.1: Continued.

Potential Effect	Thresholds	Monitoring Methods	Frequency	Completed in 2017	Threshold Exceeded (2017)
Predatory Mammals					
Project-related Mortality	1 individual	Ground Surveys, Collision Reporting System	Mine site – daily AWAR - >1/week	YES	YES (1 Wolverine)
Small Mammals					
Habitat Loss and Degradation	178 ha of High Suitability Habitat	Ground Surveys, Mapping, GIS Analysis	Every three years (next in 2020)	YES	YES
Project-related Mortality	100 Individuals	Ground Surveys, Collision Reporting System	Mine site-daily AWAR - >1/week	YES	NO
Exposure to Contaminated Water or Vegetation	See SLRA 2014	Vegetation and Soil Samples	Every three years	NO	NA
Raptors					
Healthy Prey Populations	See SLRA 2014	Vegetation and Soil Samples	Every three years	NO	NA
Disturbance of Nesting Raptors	1 Nest Failure	Active Nest Monitoring	Nests within 200 m - daily Nests from 200 to 1000 m - weekly	YES	NO
Project-related Mortality	1 individual	Ground Surveys, Collision Reporting System	Mine site - daily AWAR - >1/week	YES	NO

Table 10.1: Continued.

Potential Effect	Thresholds	Monitoring Methods	Frequency	Completed in 2017	Threshold Exceeded (2017)
Waterbirds					
Habitat Loss and Degradation	518 ha of High Suitability Habitat	Ground Surveys, Mapping, GIS Analysis	Every three years (next in 2020)	YES	NO
Disturbance of Nesting Waterfowl	1 Nest Failure	Waterfowl Nest Surveys	Yearly - for active nests within 200 m	YES	NO
Exposure to Contaminated Water or Vegetation	See SLRA 2014	Vegetation and Soil Samples	Every three years	NO	NA
Project-related Mortality	1 individual	Ground Surveys, Collision Reporting System	Mine site - daily AWAR - >1/week	YES	NO
Other Breeding Birds					
Habitat Loss and Degradation	322 ha of High Suitability Habitat	Ground Surveys, Mapping, GIS Analysis	Every three years (next in 2020)	YES	YES
Project-related Mortality	50 Individuals Per Year	Ground Surveys, Collision Reporting System	Mine site - daily AWAR - >1/week	YES	NO
Exposure to Contaminated Water or Vegetation	See SLRA 2014	Vegetation and Soil Samples	Every three years	NO	NA
Changes in Breeding Bird Populations	20% Change from Natural	Breeding Bird Plots and Transects	PRISM – every three years (next in 2019) Transects - suspended	NO	NA Surveys and detailed analysis will be conducted in 2019

SECTION 11 • LITERATURE CITED

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APPENDIX A

2017 Wildlife Observation Records

Meadowbank Wildlife Log - January 2017								
Date	**Time**	**Location**	**Wildlife Species**	**Quantity**	**Behavior**	**Observer Name #1**	**Observer Name #2**	**Action**
01/01/2017	1:30:00 PM	Meadowbank	Caribou	6	Resting	Randy S	Tom T	Monitored the area
01/01/2017		Amaruk - Meadowbank	Wolverine	1	Walking	FGL Operator		No action required
03/12/2016	2:00:00 PM	Amaruk - Meadowbank	Wolf	1	Walking	Amaruq Operator		No action required
05/01/2017	6:30:00 AM	Energy and Infrastructure Meadowbank	Fox	1	Dead	Gaetan Martel		
05/01/2017	1:00:00 PM	Environment Meadowbank	Caribou	4		Jamie Kataluk		No action required
06/01/2017	1:00:00 PM	Environment Meadowbank	Caribou	3		Jamie Kataluk		No action required
07/01/2017	5:00:00 PM	Meadowbank	Wolverine	1	Walking	Mario Roberge		Monitored the area but no sight
07/01/2017	11:30:00 AM	Meadowbank	Fox	1	Dead	Sylvain simard		
07/01/2017	3:00:00 PM	Meadowbank	Wolverine	1	Running	Fanny Laporte		Monitored the area
10/01/2017	9:30:00 AM	Meadowbank	Caribou	6	Walking	Jamie K		Monitored the area
10/01/2017	4:00:00 PM	Meadowbank	Wolverine	1	Walking	Amaruq Road Supervisor		No action required
10/01/2017	2:30:00 AM	Amaruk - Meadowbank	Wolverine	1	Hiding	Christopher (Sana)	Yannick Simard AEM	No action required
10/01/2017	11:30:00 AM	Meadowbank	Wolverine	1	Running	Martin Theriault		No action required
10/01/2017	12:30:00 PM	Meadowbank	Caribou	4	Grazing	Jean Ladouceur		Monitored the area
10/01/2017		Amaruk - Meadowbank	Caribou	2	Unknown	Amaruq Road Supervisor		No action required
10/01/2017	4:00:00 PM	Meadowbank	Wolverine	1	Walking	Amaruq Road Supervisor		No action required
11/01/2017	9:30:00 AM	Amaruk - Meadowbank	Wolverine	1	Observing	Jean francois Beland		Monitored the area but no sight
11/01/2017	12:00:00 PM	Amaruk - Meadowbank	Caribou	20	Grazing	Jamie K	Fanny L	Monitored the area
12/01/2017		Amaruk - Meadowbank	Wolf	1	Unknown	Amaruq Road Supervisor		No action required
13/01/2017	10:00:00 AM	Meadowbank	Red fox	1	Eating	Jamie Kataluk	Fanny Laporte	No action required
13/01/2017	##########	Meadowbank	Wolverine	1	Dead	Jamie Kataluk	Fanny Laporte	
14/01/2017	12:30:00 PM	Meadowbank	Caribou	6	Grazing	Jamie K	Fanny L	Monitored the area
14/01/2017	6:30:00 AM	Meadowbank	Wolverine	1	Running	Cory Carriere	Lucien Meilleur	Monitored the area but no sight
14/01/2017	3:00:00 PM	Meadowbank	Red fox	1	Running	Jamie Kataluk	Fanny Laporte	No action required
14/01/2017	7:30:00 AM	Meadowbank	Wolverine	1	Observing	Gary N		
14/01/2017	1:30:00 PM	Meadowbank	Arctic hare	1	Dead	Claude Tremblay		
14/01/2017	5:00:00 PM	Meadowbank	Musk-ox	10	Grazing	Rock		
15/01/2017	8:00:00 AM	Meadowbank	Wolverine	1	Hiding	Fanny L		
15/01/2017	9:00:00 AM	Meadowbank	Wolverine	1	Observing	Samuel S		Monitored the area but no sight
17/01/2017	3:30:00 PM	Meadowbank	Wolverine	1	Running	Aquila A		
17/01/2017	7:00:00 AM	Meadowbank	Fox	1	Unknown	Jamie Kataluk	Fanny Laporte	No action required
18/01/2017	5:30:00 PM	Meadowbank	Wolverine	1	Running	Randy S		Monitored the area
19/01/2017	10:00:00 PM	Meadowbank	Wolverine	1	Walking	Francis P		No action required
19/01/2017	5:00:00 AM	Meadowbank	Wolverine	1	Walking	Genevieve L		No action required
19/01/2017	6:30:00 PM	Meadowbank	Fox	2	Running	Randy S		Monitored the area
19/01/2017	4:00:00 PM	Meadowbank	Wolverine	1	Walking	Randy S	Tom T	Deterred. Successful
19/01/2017	3:00:00 PM	Meadowbank	Caribou	6	Walking	Randy S	Tom T	Monitored the area
21/01/2017	4:30:00 PM	Meadowbank	Caribou	3	Grazing	Yan B		No action required
22/01/2017	4:00:00 PM	Meadowbank	Wolverine	1	Walking	Mine Dispatch		Deterred. Successful
22/01/2017	3:00:00 PM	Meadowbank	Wolverine	1	Crossing the road	Larry R		Monitored the area but no sight
22/01/2017	11:30:00 AM	Amaruk - Meadowbank	Caribou	4	Unknown	FGL Dispatch		No action required
22/01/2017	2:30:00 PM	Meadowbank	Caribou	6	Resting	Randy S		Monitored the area
22/01/2017	10:30:00 AM	Meadowbank	Wolverine	1	Walking	Nelson B		Monitored the area but no sight
22/01/2017	11:30:00 AM	Meadowbank	Wolverine	1	Walking	Mine Dispatch		Monitored the area but no sight
22/01/2017	2:30:00 PM	Amaruk - Meadowbank	Wolverine	1	Observing	Mine Dispatch		Monitored the area but no sight
22/01/2017	2:30:00 PM	Amaruk - Meadowbank	Wolverine	1	Unknown	FGL dispatch		Monitored the area but no sight
24/12/2016	5:30:00 PM	Amaruk - Meadowbank	Wolverine	2	Walking	FGL Operator		No action required
24/12/2016	11:30:00 AM	Amaruk - Meadowbank	Wolverine	1	Walking	FGL Operator		No action required
24/01/2017	3:00:00 PM	Meadowbank	Caribou	6	Grazing	Randy S		Monitored the area
25/01/2017	4:30:00 PM	Meadowbank	Wolverine	1	Walking	Randy S	Tom T	Monitored the area
26/01/2017	1:00:00 PM	Meadowbank	Caribou	5	Walking	Randy S	Tom T	No action required
26/01/2017	4:30:00 PM	Meadowbank	Wolverine	1	Walking	Tom T	Patrick A	Monitored the area
27/01/2017	9:30:00 AM	Meadowbank	Red fox		Resting	Randy Schwandt	Patrick Ahern	No action required
28/01/2017	12:30:00 PM	Amaruk - Meadowbank	Caribou	6	Walking	Serge Tremblay		No action required
28/12/2016	12:30:00 PM	Amaruk - Meadowbank	Wolverine	1	Walking	FGL Operator		No action required
29/12/2016	3:00:00 AM	Amaruk - Meadowbank	Wolverine	1	Running	Amaruq operator		No action required
29/01/2017	12:00:00 AM	Meadowbank	Wolverine	1	Unknown	Dispatch office		
29/01/2017	5:00:00 PM	Meadowbank	Caribou	7	Unknown	Paul Kabloona		No action required
30/01/2017	10:30:00 AM	Meadowbank	Wolverine	1	Walking	Mine Dispatcher		Monitored the area
30/01/2017	12:30:00 AM	Meadowbank	Wolverine	1	Walking	Dispatch office		Monitored the area

Meadowbank Wildlife Log - February 2017								
Date	**Time**	**Location**	**Wildlife Species**	**Quantity**	**Behavior**	**Observer Name #1**	**Observer Name #2**	**Action**
01/02/2017	1:00:00 AM	Meadowbank	Wolverine	1	Walking	Mine Dispatch		Monitored the area
02/02/2017	11:00:00 AM	Amaruk - Meadowbank	Wolverine	1	Walking	Amaruq Operator		No action required
02/02/2017	10:30:00 AM	Amaruk - Meadowbank	Wolverine	1	Crossing the road	Amaruq Operator		No action required
02/02/2017	10:00:00 AM	Amaruk - Meadowbank	Caribou	4	Walking	Amaruq Operator		No action required
02/02/2017	12:00:00 PM	Meadowbank	Wolverine	1	Walking	Ronald F		Monitored the area
03/02/2017	9:00:00 PM	Meadowbank	Wolf	1	Walking	Joel Bernier		Monitored the area
03/02/2017	8:30:00 PM	Meadowbank	Wolverine	1	Unknown	Joey Vallee		Monitored the area
03/02/2017	10:00:00 AM	Meadowbank	Wolf	3	Walking	Jamie K	Fanny L	
03/02/2017	5:00:00 AM	Meadowbank	Wolverine	1	Walking	Jason Gaves		
03/02/2017	5:00:00 AM	Meadowbank	Wolf	3	Walking	Jason Gaves		
04/02/2017	9:00:00 AM	Meadowbank	Musk-ox	15	Unknown	Ronald Falardeau		No action required
04/02/2017	8:30:00 AM	Meadowbank	Wolf	3	Walking	Fanny Laporte	Jamie Kataluk	Monitored the area
04/02/2017	3:30:00 AM	Meadowbank	Wolverine	1	Running	Fanny Laporte	Jamie Kataluk	Monitored the area
04/02/2017	3:30:00 AM	Meadowbank	Wolf	1	Walking	Fanny Laporte	Jamie Kataluk	No action required
04/02/2017	9:00:00 AM	Meadowbank	Caribou	4	Grazing	Fanny Laporte		No action required
04/02/2017	6:00:00 AM	Meadowbank	Caribou	2	Grazing	Fanny Laporte	Jamie Kataluk	No action required
04/02/2017	10:00:00 AM	Meadowbank	Wolverine	1	Running	Jamie K	Fanny L	
04/02/2017	10:00:00 AM	Meadowbank	Wolf	1	Hiding	Jamie K	Fanny L	
05/02/2017	6:00:00 AM	Amaruk - Meadowbank	Caribou	4	Unknown	Amaruq Operator		No action required
05/02/2017	5:30:00 PM	Meadowbank	Caribou	6	Grazing	Fanny Laporte		No action required
05/02/2017	5:00:00 PM	Meadowbank	Wolf	2	Walking	Jerome Collard	Douglas Picard	Monitored the area
05/02/2017	10:30:00 AM	Meadowbank	Wolf	2	Sleeping	Jamie K	Fanny L	
05/02/2017	10:00:00 AM	Meadowbank	Caribou	5	Grazing	Jamie K	Fanny L	
06/02/2017	12:00:00 PM	Amaruk - Meadowbank	Caribou	2	Unknown	pick up		
06/02/2017	3:30:00 PM	Meadowbank	Wolf	1	Running	Fanny Laporte		Monitored the area
06/02/2017	4:00:00 AM	Meadowbank	Wolverine	1	Running	Fanny Laporte	Jamie kataluk	Monitored the area
06/02/2017	9:30:00 AM	Meadowbank	Wolverine	1	Walking	Jerome Collard	Vincent Duranleau	Monitored the area
06/02/2017	10:00:00 AM	Meadowbank	Wolf	3	Walking	Jerome Collard	Vincent Duranleau	Monitored the area
06/02/2017	11:00:00 AM	Meadowbank	Caribou	6	Grazing	Fanny Laporte		No action required
06/02/2017	11:00:00 AM	Meadowbank	Wolf	2	Walking	Felix T		
06/02/2017	9:30:00 AM	Meadowbank	Wolf	1	Walking	Tommy Mariq		
07/02/2017	3:00:00 PM	Meadowbank	Wolf	1	Walking	Dino Stagg		
07/02/2017	4:00:00 PM	Meadowbank	Red fox	1	Running	Fanny Laporte		No action required
07/02/2017	3:30:00 PM	Amaruk - Meadowbank	Caribou	1	Grazing	Dave Harisson	Fanny Laporte	No action required
08/02/2017	8:00:00 PM	Meadowbank	Wolf	1	Walking	Robin Allard		Monitored the area
08/02/2017	4:00:00 PM	Meadowbank	Red fox	1	Sleeping	Fanny Laporte	Jamie Kataluk	No action required
08/02/2017	10:00:00 AM	Meadowbank	Caribou	5	Grazing	Fanny Laporte	Jamie Kataluk	No action required
09/02/2017	10:30:00 AM	Amaruk - Meadowbank	Wolverine	1	Walking	log		
09/02/2017	12:30:00 PM	Meadowbank	Wolf	1	Walking	Jean-Claude Poitras		No action required
09/02/2017	10:00:00 AM	Meadowbank	Wolf	2	Walking	Jamie Kataluk	Fanny Laporte	No action required
09/02/2017	9:30:00 AM	Meadowbank	Wolf	1	Walking	Jamie Kataluk	Fanny Laporte	Monitored the area
09/02/2017	5:00:00 AM	Meadowbank	Wolverine	1	Running	Fanny Laporte		Monitored the area
09/02/2017	4:30:00 AM	Meadowbank	Wolf	2	Resting	Fanny Laporte		Monitored the area
10/02/2017	9:00:00 AM	Meadowbank	Wolf	2	Walking	Brendon		Monitored the area but no sight
10/02/2017	9:30:00 AM	Meadowbank	Wolf	2	Walking	Jerome Collard		Monitored the area
10/02/2017	9:00:00 AM	Meadowbank	Wolf	1	Eating	Fanny Laporte	Joe Q	Monitored the area
10/02/2017	9:00:00 AM	Meadowbank	Wolverine	1	Running	Mine dispatch		Monitored the area but no sight
10/02/2017	11:30:00 AM	Meadowbank	Caribou	6	Grazing	Fanny Laporte	Isaac A.	Monitored the area
10/02/2017	11:00:00 AM	Meadowbank	Wolf	2	Walking	Fanny Laporte		Monitored the area
11/02/2017	10:30:00 AM	Meadowbank	Wolf	2	Walking	Fanny Laporte	Jamie Kataluk	Monitored the area
11/02/2017	3:00:00 PM	Meadowbank	Wolf	1	Walking	Robin Allard		Monitored the area
12/02/2017	3:00:00 PM	Amaruk - Meadowbank	Caribou	2	Walking	log		
12/02/2017	1:00:00 PM	Amaruk - Meadowbank	Caribou	2	Walking	log		
12/02/2017	5:30:00 PM	Meadowbank	Wolf	3	Resting	Jamie K		
12/02/2017	2:00:00 PM	Meadowbank	Caribou	4	Grazing	Jamie K		
12/02/2017	11:00:00 AM	Meadowbank	Wolverine	1	Running	Jamie K		
12/02/2017	2:00:00 AM	Mine Meadowbank	Wolf	4	Walking	Marco		
13/02/2017	11:30:00 AM	Amaruk - Meadowbank	Musk-ox	1	Unknown	Amaruq dispatch		No action required
13/02/2017	4:00:00 PM	Meadowbank	Caribou	15	Walking	Jamie Kataluk	Fanny Laporte	No action required
13/02/2017	2:30:00 PM	Meadowbank	Wolf	1	Eating	Jamie Kataluk	Fanny Laporte	Monitored the area
13/02/2017	2:00:00 PM	Meadowbank	Wolf	1	Walking	Daniel Bonenfant		Monitored the area but no sight
13/02/2017	12:00:00 PM	Meadowbank	Wolf	1	Walking	Gary	Fanny Laporte	Deterred. Successful
14/02/2017	1:30:00 PM	Meadowbank	Caribou	2	Unknown	Amaruq dispatch		No action required
14/02/2017	11:30:00 AM	Meadowbank	Wolf	3	Walking	Jerome Collard	Isaac A.	Deterred. Successful
14/02/2017	9:30:00 AM	Meadowbank	Wolf	1	Sleeping	Jamie K	Fanny L	Monitored the area
17/02/2017	9:30:00 AM	Meadowbank	Wolverine	1	Eating	Jamie K		
17/02/2017	9:30:00 AM	Meadowbank	Red fox	1	Observing	Jamie K		
17/02/2017	9:00:00 AM	Meadowbank	Caribou	4	Grazing	Tom T	Jamie K	
17/02/2017	9:00:00 AM	Meadowbank	Wolf	1	Walking	Isaac Q		Deterred. Successful
18/02/2017	8:00:00 AM	Meadowbank	Caribou	15	Walking	Robin A	Tom T	No action required
18/02/2017	4:00:00 AM	Amaruk - Meadowbank	Caribou	7	Grazing	Tom T		No action required
18/02/2017	9:30:00 AM	Meadowbank	Wolverine	1	Walking	Tom T		Monitored the area
18/02/2017	5:30:00 AM	Meadowbank	Caribou	20	Grazing	Tom T		Monitored the area
19/02/2017	10:30:00 AM	Meadowbank	Wolf	2	Walking	Tom T		Monitored the area
20/02/2017	1:00:00 PM	Meadowbank	Caribou	7	Grazing	Tom T		Monitored the area
22/02/2017	3:30:00 PM	Meadowbank	Caribou	14	Walking	Randy S	Tom T	Monitored the area
22/02/2017	11:30:00 AM	Meadowbank	Wolf	1	Walking	Joe Q	Randy S	Monitored the area
23/02/2017	1:00:00 PM	Meadowbank	Wolverine	1	Walking	Richard L		No action required
23/02/2017	9:00:00 AM	Meadowbank	Wolverine	1	Running	Randy P		No action required
23/02/2017	12:30:00 PM	Meadowbank	Wolf	1	Running	Randy S	Nelson B	Monitored the area
24/02/2017	12:30:00 PM	Meadowbank	Wolf	1	Walking	Nelson B		Monitored the area
24/02/2017	4:30:00 PM	Amaruk - Meadowbank	Caribou	4	Grazing	Martin Theriault	Tom Thomson	No action required
25/02/2017	2:30:00 PM	Meadowbank	Caribou	12	Resting	Martin T	Randy S	Monitored the area
25/02/2017	3:00:00 PM	Meadowbank	Wolf	1	Running	Martin T	Randy S	Deterred. Successful
26/02/2017	4:00:00 PM	Meadowbank	Wolf	1	Hunting	Randy S		Monitored the area
26/02/2017	3:00:00 PM	Meadowbank	Caribou	8	Resting	Randy S		Monitored the area
26/02/2017	11:30:00 AM	Meadowbank	Musk-ox	4	Grazing	Donald G		No action required
26/02/2017	10:00:00 AM	Meadowbank	Caribou	4	Walking	Randy S		Monitored the area
27/02/2017	5:30:00 PM	Meadowbank	Wolf	1		Erika Voyer		Monitored the area
28/02/2017	7:30:00 PM	Environment Meadowbank	Caribou	18		Martin Theriault	Tom Thomson	No action required
28/02/2017	12:30:00 AM	Meadowbank	Wolverine	1	Unknown	Nicholas G		Monitored the area
28/02/2017	10:30:00 PM	Meadowbank	Wolf	1	Unknown	Nicholas G		No action required
28/02/2017	4:00:00 PM	Environment Meadowbank	Caribou	6	Grazing	Martin Theriault	Tom Thomson	No action required
28/02/2017	4:30:00 PM	Environment Meadowbank	Wolf	1		Martin Theriault	Tom Thomson	Deterred. Successful
28/02/2017	12:00:00 PM	Meadowbank	Wolf	2	Unknown	Jason G		Monitored the area but no sight
28/02/2017	7:30:00 AM	Meadowbank	Wolverine	1		Pierre Petit		Monitored the area

Meadowbank Wildlife Log - March 2017								
Date	**Time**	**Location**	**Wildlife Species**	**Quantity**	**Behavior**	**Observer Name #1**	**Observer Name #2**	**Action**
3/1/2017	4:00:00 PM	Amaruk - Meadowbank	Caribou	5	Unknown	AMQ		No action required
3/1/2017	7:00:00 PM	Meadowbank	Wolf	2	Walking	Mathieu Paradis		
3/1/2017	9:30:00 AM	Energy and Infrastructure Meadowbank	Wolverine	1		Site services worker		Monitored the area
3/2/2017	7:00:00 PM	Meadowbank	Caribou	14	Grazing	Martin T		Monitored the area
3/2/2017	5:00:00 PM	Meadowbank	Wolverine	1	Walking	Isaac Q		
3/2/2017	6:00:00 PM	Meadowbank	Wolf	1	Walking	Isaac Q		
3/2/2017	2:00:00 PM	Meadowbank	Wolf	2	Running	Martin T	Randy S	Monitored the area
3/2/2017	8:30:00 AM	Meadowbank	Caribou	14	Grazing	Jamie K	Randy S	
3/3/2017	6:00:00 PM	Meadowbank	Caribou	14	Grazing	Randy S	Jamie K	Monitored the area
3/4/2017	5:00:00 PM	Meadowbank	Wolf	1	Walking	Putuaq Kreelak		
3/4/2017	5:00:00 PM	Meadowbank	Caribou	15	Grazing	Martin T	Jamie K	
3/4/2017	12:30:00 PM	Meadowbank	Wolf	1	Running	Jamie K		
3/5/2017	4:00:00 PM	Environment Meadowbank	Wolf	2	Walking	Martin Theriault		Deterred. Successful
3/5/2017	9:30:00 AM	Meadowbank	Wolverine	1	Running	Jamie K	Martin T	
3/5/2017	4:30:00 AM	Meadowbank	Wolf	1	Walking	Dany Saumure		
3/5/2017	4:00:00 AM	Meadowbank	Wolf	2	Walking	Dispatcher		
3/6/2017	9:00:00 AM	Amaruk - Meadowbank	Caribou	5	Unknown	AMQ		No action required
3/6/2017	5:30:00 PM	Meadowbank	Caribou	12	Grazing	Martin T	Jamie K	
3/6/2017	10:30:00 AM	Meadowbank	Wolf	2	Walking	Nick King Jr		
3/6/2017	10:00:00 AM	Meadowbank	Wolf	2	Resting	Isaac Q		
3/9/2017	5:00:00 PM	Meadowbank	Wolverine	1	Running	Jamie Kataluk	Fanny Laporte	Monitored the area
3/9/2017	5:00:00 PM	Meadowbank	Wolf	1	Walking	Jamie Kataluk	Fanny Laporte	Monitored the area
3/10/2017	9:00:00 AM	Meadowbank	Wolverine	1	Unknown	Marco Lemelin		No action required
3/10/2017	10:30:00 PM	Meadowbank	Wolverine	1	Running	Robin Allard		Monitored the area
3/10/2017	9:30:00 AM	Meadowbank	Caribou	17	Grazing	Fanny Laporte	Jamie Kataluk	Monitored the area
3/10/2017	10:30:00 PM	Meadowbank	Wolf	2	Walking	Robin Allard		Monitored the area
3/10/2017	5:00:00 PM	Meadowbank	Wolf	1	Running	Sylvain Simard		Monitored the area but no sight
3/10/2017	9:00:00 AM	Meadowbank	Wolf	1	Running	Jamie Kataluk	Fanny Laporte	Monitored the area
3/11/2017	12:00:00 AM	Meadowbank	Wolf	1	Walking	Robin Allard		Monitored the area
3/11/2017	8:30:00 AM	Amaruk - Meadowbank	Caribou	8	Grazing	Fanny Laporte		No action required
3/11/2017	8:00:00 AM	Meadowbank	Wolf	1	Walking	Mine helper		Monitored the area but no sight
3/11/2017	8:30:00 AM	Meadowbank	Caribou	15	Grazing	Fanny Laporte		Monitored the area
3/12/2017	3:00:00 PM	Amaruk - Meadowbank	Caribou	1	Unknown	AMQ		No action required
3/12/2017	6:30:00 AM	Meadowbank	Wolf	1	Unknown	Felix		Monitored the area
3/12/2017	8:30:00 AM	Meadowbank	Wolf	1	Walking	Isaac A.		Monitored the area
3/12/2017	1:00:00 PM	Meadowbank	Wolverine	1	Unknown	Randy Pidgeon		No action required
3/12/2017	3:30:00 AM	Meadowbank	Wolf	1	Eating	Mills employee (Sylvain)	Lab employee	Monitored the area but no sight
3/13/2017	6:00:00 PM	Meadowbank	Caribou	16	Grazing	Fanny Laporte		No action required
3/15/2017	12:00:00 AM	Amaruk - Meadowbank	Wolf	2	Walking	AMQ		No action required
3/15/2017	9:00:00 AM	Amaruk - Meadowbank	Caribou	3	Walking	AMQ		No action required
3/15/2017	6:00:00 AM	Meadowbank	Wolf	1	Walking	Mikael A	Vincent R	Monitored the area
3/15/2017	6:00:00 PM	Meadowbank	Wolverine	1	Crossing the road	Nelson B		Monitored the area but no sight
3/15/2017	1:00:00 PM	Meadowbank	Wolf	1	Crossing the road	Mine Dispatch		Monitored the area but no sight
3/16/2017	7:00:00 AM	Meadowbank	Wolf	1	Walking	Tim K		Monitored the area but no sight
3/17/2017	12:00:00 AM	Meadowbank	Wolf	2	Walking	Mine Dispatch		No action required
3/17/2017	6:00:00 PM	Meadowbank	Wolf	1	Crossing the road	Mine Dispatch	Tom T	Monitored the area
3/18/2017	3:30:00 PM	Meadowbank	Red fox	1	Walking	Tom T	Robin A	Monitored the area
3/18/2017	3:30:00 PM	Meadowbank	Wolf	1	Walking	Daniel G		Monitored the area but no sight
3/18/2017	6:30:00 AM	Meadowbank	Wolf	1	Observing	Pierre P		Monitored the area but no sight
3/19/2017	8:00:00 AM	Amaruk - Meadowbank	Wolf	2	Walking	AMQ		No action required
3/19/2017	7:30:00 PM	Meadowbank	Wolf	2	Walking	Tom T	Robin A	Deterred. Successful
3/19/2017	9:30:00 AM	Meadowbank	Wolf	2	Walking	Tom T		Monitored the area
3/19/2017	6:30:00 AM	Meadowbank	Wolf	1	Walking	Tim K		Monitored the area but no sight
3/20/2017	8:00:00 AM	Meadowbank	Wolf	2	Walking	Mine Dispatch		Monitored the area but no sight
3/21/2017	8:00:00 AM	Meadowbank	Wolf	2	Walking	Tom T		Monitored the area

3/21/2017	2:00:00 AM	Meadowbank	Wolf	1	Unknown	BL Dispatch		Monitored the area
3/22/2017	3:30:00 PM	Amaruk - Meadowbank	Wolverine	1	Running	Amaruq operator		No action required
3/22/2017	3:30:00 PM	Amaruk - Meadowbank	Wolverine	1	Running	Amaruq operator		No action required
3/22/2017	3:30:00 PM	Meadowbank	Wolverine	1	Walking	John		
3/22/2017	11:30:00 AM	Amaruk - Meadowbank	Caribou	3	Walking	John		
3/22/2017	9:00:00 AM	Meadowbank	Wolf	1	Walking	Tom T		Monitored the area
3/23/2017	10:30:00 AM	Meadowbank	Wolf	2	Crossing the road	Michael T		Monitored the area but no sight
3/23/2017	9:00:00 AM	Meadowbank	Caribou	20		Tom T	Randy S	No action required
3/24/2017	11:00:00 AM	Meadowbank	Wolverine	1	Running	Peter Nanauq		No action required
3/25/2017	8:00:00 PM	Amaruk - Meadowbank	Wolf	2	Walking	Amaruq Operator		No action required
3/25/2017	8:30:00 PM	Meadowbank	Wolf	2	Walking	John		
3/25/2017	4:00:00 PM	Services Meadowbank	Wolf	1	Walking	Martin Theriault		Monitored the area
3/25/2017	1:00:00 AM	Energy and Infrastructure Meadowbank	Wolf	1	Walking	unknow reported by Steven Tremblay		
3/25/2017	9:30:00 AM	Meadowbank	Wolf	1	Unknown	Sidney Y		No action required
3/26/2017	7:00:00 PM	Site Services Meadowbank	Wolverine	1	Immobile	Martin Theriault	Randy Schwandt	Deterred. Successful
3/26/2017	12:30:00 PM	Open Pit Meadowbank	Wolf	1		dozer operator		Monitored the area but no sight
3/26/2017	11:30:00 AM	Energy and Infrastructure Meadowbank	Wolf	1		Bryan		
3/27/2017		Amaruk - Meadowbank	Caribou	5	Walking	Amaruq operator		No action required
3/27/2017	11:30:00 PM	Site Services Meadowbank	Wolf	2		Mathieu Paradis		
3/27/2017	4:00:00 PM	Meadowbank	Wolf	2	Unknown	Steven T		Monitored the area but no sight
3/28/2017	7:00:00 PM	Environment Meadowbank	Caribou	20	Grazing	Martin Theriault	Donald Gauthier	No action required
3/28/2017	7:00:00 PM	Environment Meadowbank	Wolverine	1	Running	Martin Theriault	Donald Gauthier	No action required
3/28/2017	3:00:00 PM	Environment Meadowbank	Wolf	2	Running	Martin Theriault	Donald Gauthier	
3/28/2017	8:00:00 AM	Auxiliary Equipment Meadowbank	Wolf	2		Putauq		Monitored the area but no sight
3/28/2017	6:00:00 AM	Process Plant Meadowbank	Wolf	2	Observing	André Desmeules		
3/29/2017	7:00:00 AM	Health and Safety Meadowbank	Red fox	1	Running	André Rouleau		No action required
3/30/2017	6:30:00 PM	Meadowbank	Caribou	20	Grazing	AFS driver	Neslon Bell	No action required
3/30/2017	10:30:00 AM	Meadowbank	Wolverine	1	Walking	Nick K Junior		

Meadowbank Wildlife Log - April 2017								
Date	**Time**	**Location**	**Wildlife Species**	**Quantity**	**Behavior**	**Observer Name #1**	**Observer Name #2**	**Action**
04/04/2017	2:00:00 PM	Meadowbank	Wolverine	1	Unknown	Amaruq Dispatch		No action required
04/04/2017	7:00:00 PM	Meadowbank	Caribou	18	Grazing	Fanny Laporte		No action required
04/04/2017	4:30:00 PM	Meadowbank	Raven	1	Observing	Fanny Laporte		Monitored the area
04/04/2017	11:30:00 AM	Meadowbank	Caribou	7	Grazing	Fanny Laporte	Jamie Kataluk	No action required
04/04/2017	11:30:00 AM	Meadowbank	Caribou	20		Peter Tapatai		No action required
06/04/2017	10:30:00 AM	Meadowbank	Wolf	1	Walking	Amaruq Dispatch		No action required
07/04/2017	8:30:00 AM	Meadowbank	Caribou	18	Grazing	Sylvain Simard	Fanny Laporte	Monitored the area
08/04/2017	3:00:00 PM	Meadowbank	Fox	1	Running	Genevieve Laidlaw		Monitored the area
08/04/2017	12:00:00 PM	Meadowbank	Caribou	7	Grazing	Fanny Laporte		Monitored the area
12/04/2017	12:30:00 PM	Amaruk - Meadowbank	Caribou	5	Observing	Isabelle C.		
12/04/2017	12:00:00 PM	Amaruk - Meadowbank	Wolf	1	Walking	Isabelle C.		
12/04/2017	12:30:00 PM	Amaruk - Meadowbank	Caribou	5	Grazing	Amaruq Operator		No action required
12/04/2017	12:30:00 PM	Amaruk - Meadowbank	Wolf	1	Walking	Amaruq Operator		No action required
12/04/2017	12:30:00 PM	Meadowbank	Caribou	5	Grazing	Serge Tremblay		
13/04/2017	11:00:00 AM	Amaruk - Meadowbank	Caribou	3	Walking	Isabelle C.		
13/04/2017	10:00:00 AM	Amaruk - Meadowbank	Wolverine	1	Walking	Isabelle C.		
13/04/2017	10:00:00 AM	Amaruk - Meadowbank	Wolverine	1	Walking	Amaruq Operator		No action required
13/04/2017	11:00:00 AM	Meadowbank	Caribou	3	Walking	Serge Tremblay		
13/04/2017	10:30:00 AM	Meadowbank	Wolverine	1	Walking	Serge Tremblay		
14/04/2017	7:30:00 PM	Amaruk - Meadowbank	Caribou	8	Crossing the road	Isabelle C.		
14/04/2017	7:00:00 PM	Amaruk - Meadowbank	Caribou	8	Walking	Amaruq Operator		No action required
14/04/2017	11:00:00 AM	Amaruk - Meadowbank	Caribou	3	Walking	Amaruq Operator		No action required
14/04/2017	7:00:00 PM	Meadowbank	Caribou	8	Walking	Serge Tremblay		
14/04/2017	4:00:00 PM	Amaruk - Meadowbank	Caribou	4	Walking	Tom T	Martin A	No action required
14/04/2017	3:30:00 PM	Amaruk - Meadowbank	Caribou	3	Walking	Tom T	Martin A	No action required
15/04/2017	5:00:00 AM	Amaruk - Meadowbank	Fox	1	Walking	Isabelle C.		
15/04/2017	5:00:00 AM	Amaruk - Meadowbank	Fox	1	Walking	Amaruq Operator		No action required
15/04/2017	7:30:00 PM	Amaruk - Meadowbank	Arctic hare	2	Running	Amaruq Operator		No action required
15/04/2017	5:00:00 AM	Meadowbank	Fox	1	Walking	Serge Tremblay		
15/04/2017	7:00:00 PM	Meadowbank	Arctic hare	2	Running	Serge Tremblay		
15/04/2017	12:30:00 PM	Meadowbank	Fox	1	Observing	Randy S		Monitored the area
15/04/2017	8:30:00 AM	Meadowbank	Caribou	6	Grazing	Tom T	Randy S	No action required
16/04/2017	7:00:00 AM	Amaruk - Meadowbank	Caribou	15	Grazing	Isabelle C.		
16/04/2017	9:00:00 AM	Amaruk - Meadowbank	Caribou	20	Grazing	Isabelle C.		
16/04/2017	1:00:00 PM	Amaruk - Meadowbank	Caribou	10	Grazing	Isabelle C.		
16/04/2017	7:00:00 PM	Meadowbank	Caribou	15	Grazing	Amaruq Operator		No action required
16/04/2017	8:30:00 AM	Amaruk - Meadowbank	Caribou	20	Grazing	Amaruq Operator		No action required
16/04/2017	1:00:00 PM	Amaruk - Meadowbank	Caribou	10	Grazing	Amaruq Operator		No action required
16/04/2017	7:00:00 PM	Meadowbank	Caribou	15	Grazing	Serge Trmblay		
16/04/2017	3:00:00 PM	Meadowbank	Caribou	20	Grazing	Serge Tremblay		
16/04/2017	2:00:00 PM	Meadowbank	Caribou	10	Grazing	Serge TRemblay		
17/04/2017	1:30:00 PM	Amaruk - Meadowbank	Caribou	25	Resting	Isabelle C.		
17/04/2017	1:00:00 PM	Amaruk - Meadowbank	Caribou	25	Walking	Amaruq Operator		No action required
17/04/2017	1:00:00 PM	Meadowbank	Caribou	25	Grazing	Serge Tremblay		
17/04/2017	12:00:00 PM	Meadowbank	Wolf	1	Walking	Serge Tremblay		
17/04/2017	2:00:00 PM	Exploration Geology Meadowbank	Grizzly	1	Eating	Cedric Bonhomme		No action required
17/04/2017		Amaruk - Meadowbank	Grizzly	1		AMQ		No action required
17/04/2017	3:30:00 PM	Amaruk - Meadowbank	Caribou	30	Grazing	Tom T		Monitored the area
17/04/2017	10:30:00 AM	Meadowbank	Wolf	2	Crossing the road	Mine Dispatch		Monitored the area but no sight
18/04/2017	8:00:00 PM	Amaruk - Meadowbank	Wolverine	1	Walking	Amaruq Operator		No action required
18/04/2017	8:00:00 PM	Meadowbank	Wolverine	1	Walking	Serge Tremblay		
19/04/2017	11:00:00 AM	Amaruk - Meadowbank	Caribou	3	Walking	Amaruq Operator		No action required
19/04/2017	11:00:00 AM	Meadowbank	Caribou	3	Walking	Serge Tremblay		
21/04/2017	11:00:00 PM	Amaruk - Meadowbank	Wolf	2	Walking	Amaruq Operator		No action required
21/04/2017	12:00:00 AM	Meadowbank	Wolf	2	Walking	Serge Tremblay		
21/04/2017	2:30:00 PM	Meadowbank	Wolverine	1	Running	Jason Gaves		
22/04/2017	10:00:00 PM	Amaruk - Meadowbank	Caribou	1	Walking	Amaruq Operator		No action required
22/04/2017	10:00:00 PM	Meadowbank	Caribou	1	Walking	Serge Tremblay		
22/04/2017	10:30:00 AM	Meadowbank	Musk-ox	4	Resting	Martin Theriault		
22/04/2017	11:30:00 AM	Meadowbank	Caribou	14	Grazing	Martin Theriault		
23/04/2017	4:30:00 PM	Amaruk - Meadowbank	Caribou	20	Grazing	Amaruq Operator		No action required
23/04/2017	5:30:00 PM	Amaruk - Meadowbank	Wolverine	1	Walking	Amaruq Operator		No action required
23/04/2017	2:00:00 PM	Amaruk - Meadowbank	Fox	1	Running	Amaruq Operator		No action required
23/04/2017	5:30:00 PM	Meadowbank	Wolverine	1	Walking	Serge Tremblay		
23/04/2017	1:30:00 PM	Meadowbank	Fox	1	Walking	Serge Tremblay		
23/04/2017	7:00:00 AM	Meadowbank	Caribou	1	Grazing	Sidney Young		
24/04/2017	5:30:00 AM	Meadowbank	Wolf	3		David Roy		
25/04/2017	2:30:00 PM	Open Pit Meadowbank	Wolf	2	Walking	Mine dispatch		Monitored the area but no sight
30/04/2017	6:00:00 PM	Amaruk - Meadowbank	Wolf	2	Walking	Amaruq Operator		No action required
30/04/2017	7:30:00 AM	Meadowbank	Caribou	20	Grazing	Randy Pidgion		No action required

Meadowbank Wildlife Log - May 2017								
Date	**Time**	**Location**	**Wildlife Species**	**Quantity**	**Behavior**	**Oberver Name #1**	**Observer Name #2**	**Action**
2017-05-01	8:00:00 AM	Amaruk - Meadowbank	Caribou	20	Grazing	Amaruq Operator		No action required
2017-05-01	5:00:00 PM	Meadowbank	Caribou	3	Grazing	Martin Theriault	Fanny Laporte	Monitored the area
2017-05-01	3:00:00 PM	Meadowbank	Arctic hare	1	Immobile	Martin Theriault		No action required
2017-05-01	8:00:00 AM	Amaruk - Meadowbank	Caribou	20	Eating	Isabelle C.		
2017-05-01	12:00:00 PM	Meadowbank	Fox	3	Eating	Fanny Laporte	Martin Theriault	Monitored the area
2017-05-01	3:30:00 PM	Meadowbank	Caribou	25	Crossing the road	Paul Boudreault		Monitored the area
2017-05-01	12:00:00 PM	Meadowbank	Wolverine	1	Running	Dyno driver		No action required
2017-05-02	4:00:00 PM	Meadowbank	Wolverine	1	Running	Fanny Laporte		No action required
2017-05-04	6:30:00 PM	Meadowbank	Wolverine	1	Running	Brandon 0.	Tom T.	Monitored the area
2017-05-05	5:30:00 PM	Amaruk - Meadowbank	Caribou	12	Walking	Isabelle C.		
2017-05-05	5:30:00 PM	Amaruk - Meadowbank	Caribou	2	Walking	Isabelle C.		
2017-05-06	3:00:00 PM	Meadowbank	Musk-ox	20	Walking	Fanny Laporte	Tom Thomson	No action required
2017-05-06	8:00:00 AM	Meadowbank	Wolverine	1	Running	Simon		No action required
2017-05-06	1:00:00 AM	Meadowbank	Wolverine	1	Fleeing	Incinerator	Mickael BA.	Monitored the area
2017-05-07	9:00:00 AM	Amaruk - Meadowbank	Caribou	40	Grazing	Fanny Laporte	Isabelle Couture	Monitored the area
2017-05-07	12:30:00 PM	Meadowbank	Caribou	35	Grazing	Fanny Laporte	Isabelle Couture	Monitored the area
2017-05-08	7:30:00 AM	Meadowbank	Wolf	2	Walking	Dyno		No action required
2017-05-08	4:30:00 PM	Meadowbank	Wolverine	1	Walking	Charles Blouin		No action required
2017-05-08	7:00:00 PM	Meadowbank	Wolverine	1	Unknown	E&I employee		Monitored the area
2017-05-09	10:00:00 AM	Meadowbank	Wolverine	1	Running	Fanny Laporte	Michael Buttet Allard	Deterred. Successful
2017-05-10	1:00:00 PM	Amaruk - Meadowbank	Caribou	45	Eating	Isabelle C.		Monitored the area
2017-05-10	12:30:00 PM	Mine Meadowbank	Wolf	2	Running	Vault dispatch		
2017-05-10	12:30:00 PM	Amaruk - Meadowbank	Caribou	10	Eating	Isabelle C.		No action required
2017-05-10	12:00:00 PM	Amaruk - Meadowbank	Rough legged hawk	1	Flying	Isabelle C.		Monitored the area
2017-05-10	1:00:00 PM	Amaruk - Meadowbank	Caribou	4	Walking	Isabelle C.		
2017-05-10	3:00:00 PM	Amaruk - Meadowbank	Caribou	7	Walking	Tom T.	Mickael BA.	
2017-05-11	12:30:00 PM	Amaruk - Meadowbank	Wolverine	2	Walking	Isabelle C.		
2017-05-12	10:00:00 AM	Amaruk - Meadowbank	Wolf	2	Walking	Isabelle C.	Tom T.	Monitored the area
2017-05-12	11:00:00 AM	Environment Meadowbank	Fox	1	Fleeing	Dewatering	Jamie K.	Monitored the area
2017-05-12	12:30:00 PM	Amaruk - Meadowbank	Arctic hare	1	Crossing the road	Isabelle C.	Tom T.	No action required
2017-05-12	12:30:00 PM	Amaruk - Meadowbank	Caribou	6	Grazing	Isabelle C.	Tom T.	Monitored the area
2017-05-12	8:00:00 PM	Amaruk - Meadowbank	Musk-ox	8	Walking	Isabelle C.		
2017-05-13	3:00:00 PM	Amaruk - Meadowbank	Caribou	7	Walking	Isabelle C.		
2017-05-15	3:00:00 PM	Amaruk - Meadowbank	Musk-ox	10	Eating	Isabelle C.		
2017-05-16	1:00:00 PM	Amaruk - Meadowbank	Rough legged hawk	1	Flying	Isabelle C.		
2017-05-16	1:00:00 PM	Amaruk - Meadowbank	Ptarmigan	3	Walking	Isabelle C.		
2017-05-16	5:00:00 PM	Mine Meadowbank	Rough legged hawk	2	Flying	Martin T.		
2017-05-16	11:30:00 AM	Mine Meadowbank	Musk-ox	11	Walking	Jamie K.	Mickael BA.	
2017-05-16	1:00:00 PM	Amaruk - Meadowbank	Caribou	8	Walking	Isabelle C.		
2017-05-17	10:00:00 AM	Meadowbank	Wolf	2	Observing	Jamie K	Mickael A	
2017-05-17	9:30:00 AM	Meadowbank	Rough legged hawk	2	Flying	Isabelle C		
2017-05-17	10:00:00 AM	Meadowbank	Wolverine	1	Running	Isabelle C		
2017-05-17	10:00:00 AM	Meadowbank	Musk-ox	10	Grazing	Jamie K	Mickael A	
2017-05-17	10:00:00 AM	Meadowbank	Musk-ox	12	Grazing	jean leblanc		No action required
2017-05-20	11:00:00 AM	Amaruk - Meadowbank	Wolf	2	Crossing the road	Danny paqaw		No action required
2017-05-20	8:00:00 AM	Meadowbank	Fox	1	Sleeping	Ken McMillan		
2017-05-20	4:00:00 PM	Amaruk - Meadowbank	Musk-ox	10	Resting	AMQ user		No action required
2017-05-20	12:00:00 PM	Amaruk - Meadowbank	Caribou	11	Resting	AMQ user		
2017-05-20	10:30:00 AM	Amaruk - Meadowbank	Wolverine	1	Immobile	Danny paqaw		
2017-05-21	12:00:00 PM	Amaruk - Meadowbank	Musk-ox	10	Eating	AMQ user		No action required

2017-05-21	3:00:00 PM	Amaruk - Meadowbank	Caribou	5	Grazing	Jean-francois leblanc		
2017-05-21	12:00:00 PM	Amaruk - Meadowbank	Musk-ox	10	Immobile	Guillame Tremblay		
2017-05-24	1:30:00 AM	Meadowbank	Wolf	1	Running	Ian Bourassa		Monitored the area
2017-05-24	1:30:00 AM	Meadowbank	Musk-ox	8	Running	Ian Bourassa		Monitored the area
2017-05-25	11:00:00 AM	Meadowbank	Wolf	2	Walking	Dispatch		No action required
2017-05-25	2:30:00 PM	Meadowbank	Peregrine falcon	2	Flying	Fanny Laporte	Jason Fortier	Monitored the area
2017-05-26	2:30:00 PM	Meadowbank	Rough legged hawk	1	Flying	Fanny Laporte	Martin Theriault	Monitored the area
2017-05-28	6:30:00 PM	Meadowbank	Arctic hare	2	Resting	Fanny Laporte	Martin Archambault	No action required
2017-05-28	6:30:00 PM	Meadowbank	Ptarmigan	2	Walking	Fanny Laporte	Martin Archambault	No action required
2017-05-28	6:30:00 PM	Meadowbank	Peregrine falcon	1	Immobile	Fanny Laporte	Martin Archambault	Monitored the area
2017-05-30	4:00:00 PM	Amaruk - Meadowbank	Peregrine falcon	1	Flying	Patrick Ahern		
2017-05-30	5:00:00 PM	Amaruk - Meadowbank	Sandhill cranes	15	Flying	Patrick Ahern		
2017-05-30	4:00:00 PM	Amaruk - Meadowbank	Snow geese	15	Flying	Patrick Ahern		
2017-05-30	2:00:00 PM	Meadowbank	Peregrine falcon	2		Fanny Laporte	Mhaly Bois Charlebois	Monitored the area
2017-05-31		Amaruk - Meadowbank	Long tailed ducks	10		Patrick Ahear		
2017-05-31	4:30:00 PM	Meadowbank	Musk-ox	9	Resting	Isabelle C.	Fanny L.	
2017-05-31		Amaruk - Meadowbank	Sandhill cranes	50		Patrick A.		
2017-05-31		Meadowbank	Snow geese	14		Patrick Ahearn		

Meadowbank Wildlife Log - June 2017								
Date	**Time**	**Location**	**Wildlife species**	**Quantity**	**Behavior**	**Oberver Name #1**	**Observer Name #2**	**Action**
2017-06-01	8:30:00 AM	Meadowbank-Amaruq	Wolverine	1		Serge Tremblay		No action required
2017-06-01	8:30:00 AM	Meadowbank-Amaruq	Wolverine	1	Unknown	Serge L		No action required
2017-06-01	5:00:00 PM	Meadowbank	Wolverine	1	Running	Tom Thomson	Fanny Laporte	No action required
2017-06-01	11:00:00 AM	Meadowbank	Wolverine	1	Running	David E&I		Monitored the area
2017-06-02	3:00:00 PM	Meadowbank	Musk-ox	10	Grazing	Sylvain Simard		No action required
2017-06-02	8:30:00 AM	Meadowbank	Grizzly	3	Walking	Tom T	Fanny L	Monitored the area
2017-06-03	5:00:00 PM	Meadowbank	Wolverine	1	Running	Mario Pelletier		Monitored the area
2017-06-05	2:30:00 PM	Amaruq	Musk-ox	8	Resting	Patrick Ahern		No action required
2017-06-05	4:00:00 AM	Meadowbank-Amaruq	Musk-ox	2	Eating	Isabelle C.		No action required
2017-06-05	11:00:00 AM	Meadowbank-Amaruq	Ptarmigan	1	Immobile	Fanny Laporte		No action required
2017-06-07	9:00:00 AM	Meadowbank-Amaruq	Musk-ox	2		jean-Francois F.		
2017-06-08	2:00:00 PM	Meadowbank-Amaruq	Musk-ox	17		Serge C.		
2017-06-08	12:00:00 PM	Meadowbank-Amaruq	Musk-ox	25	Eating	Olivier J.		
2017-06-08	11:30:00 AM	Meadowbank-Amaruq	Musk-ox	25		Isabelle C.		No action required
2017-06-08	10:00:00 AM	Meadowbank-Amaruq	Musk-ox	10	Eating	Isabelle C.		No action required
2017-06-10	4:00:00 PM	Meadowbank-Amaruq	Wolverine	1		D. Poitras		
2017-06-10	5:30:00 PM	Meadowbank-Amaruq	Musk-ox	8	Grazing	Tom T	Robin A	No action required
2017-06-11	5:00:00 PM	Meadowbank-Amaruq	Musk-ox	35		Isabelle C.		No action required
2017-06-18	4:30:00 PM	Amaruq	Sandhill cranes	4	Unknown	AMQ user		No action required
2017-06-20	7:00:00 AM	Meadowbank-Amaruq	Musk-ox	2	Unknown	Raphael Simard		No action required
2017-06-20	1:00:00 PM	Meadowbank-Amaruq	Musk-ox	1	Crossing the road	Dispatch	Donald Gauthier	Monitored the area
2017-06-21	2:30:00 PM	Meadowbank	Fox	2	Hiding	Jason Fortier		Deterred. Successful
2017-06-21	5:00:00 PM	Meadowbank	Peregrine falcon	1	Flying	Patrick Ahern	Fanny laporte	No action required
2017-06-22	12:00:00 PM	Amaruq	Fox	4	Unknown	AMQ user		No action required
2017-06-22	3:00:00 PM	Meadowbank-Amaruq	Musk-ox	1	Grazing	Patrick Ahern	Jason Fortier	No action required
2017-06-24	10:00:00 AM	Meadowbank	Musk-ox	12	Walking	Fanny Laporte	Martin Archambault	Monitored the area
2017-06-24	9:30:00 AM	Meadowbank	Wolf	1	Walking	Fanny Laporte		Monitored the area
2017-06-24	8:00:00 AM	Meadowbank	Fox	1	Sick or wounded	Mathieu Corriveau		Monitored the area
2017-06-24	6:00:00 AM	Meadowbank	Wolf	1	Walking	Gunner Tuggak		Monitored the area
2017-06-25	9:00:00 AM	Maedowbank-Amaruq	Musk-ox	12	Walking	AF driver	Patrick Ahern	Monitored the area
2017-06-25	6:00:00 AM	Meadowbank-Amaruq	Musk-ox	1	Crossing the road	Henrick Duschen		No action required
2017-06-26	3:30:00 PM	Meadowbank-Amaruq	Musk-ox	16	Sleeping	Patrick Ahern	Jason Fortier	No action required
2017-06-27	9:30:00 AM	Meadowbank-Amaruq	Caribou	2	Walking	Patrick Ahern	Jason Fortier	No action required
2017-06-29	3:00:00 PM	Meadowbank-Amaruq	Wolverine	1	Running	Laurier Stewart		Monitored the area

Meadowbank Wildlife Log - July 2017								
Date	**Time**	**Location**	**Wildlife Species**	**Quantity**	**Behavior**	**Oberver Name #1**	**Observer Name #2**	**Action**
2017-07-02	6:00:00 AM	By Mills area	Fox	1	Unknown	Mario Pelletier		Monitored the area
2017-07-02	11:30:00 PM	E&I offices	Fox	1	Sick or wounded	Many (Janitor)		Monitored the area
2017-07-02	11:00:00 AM	Unknown	Peregrine falcon	4	Unknown	Fanny Laporte	Mickael Butet Allard	Monitored the area
2017-07-03	12:30:00 PM	North cell	Wolf	1	Resting	Nelson Bell		Monitored the area
2017-07-08	5:00:00 PM	km 54	Musk-ox	15	Eating	Eric P.	Isabelle C.	Unknown
2017-07-08	1:00:00 PM	Near Pipedream boat launch	Musk-ox	1	Grazing	Tom T		No action required
2017-07-08	9:30:00 AM	Primary Crusher	Fox	1	Crossing the road	Tom T		No action required
2017-07-09	9:30:00 AM	KM48	Fox	5	Unknown	BL Dispatch	Truck 87	No action required
2017-07-12	3:30:00 PM	km 102, West side of the road	Wolf	2	Walking	Road crew		No action required
2017-07-13	6:00:00 PM	Unknown	Fox	1	Immobile	Martin Theriault		Unknown
2017-07-15	8:30:00 PM	North East corner	Rough legged hawk	1	Threatened	Jason Fortier	Jacques Fortier	No action required
2017-07-15	11:00:00 AM	EMR, 100m west of road	Musk-ox	3	Grazing	Patrick Ahern		No action required
2017-07-15	3:30:00 AM	Unknown	Wolf	1	Walking	Mill worker		Unknown
2017-07-16	11:30:00 AM	tower #3, east side	Caribou	1	Walking	Richard Clarke		Unknown
2017-07-16	7:30:00 AM	blind corner km15	Musk-ox	1	Grazing	Jean sebastion		No action required
2017-07-19	11:00:00 AM	km 24	Musk-ox	11	Grazing	Jason Fortier		No action required
2017-07-20	Unknown	Unknown	Peregrine falcon	1	Unknown	Martin Theriault		Unknown
2017-07-20	10:30:00 AM	west side of airstrip	Wolf	1	Walking	Airport Tower		Monitored the area but no sight
2017-07-21	2:00:00 PM	Going east from Baker lake	Wolf	1	Crossing the road	Joseph tunguaq		No action required
2017-07-22	3:30:00 PM	km 94 west side	Caribou	1	Resting	Kyle McKlean		No action required
2017-07-23	1:30:00 PM	km 13	Musk-ox	1	Grazing	Jason Fortier		No action required
2017-07-23	11:30:00 AM	Unknown	Wolf	1	Crossing the road	Martin Theriault		Monitored the area
2017-07-24	7:30:00 AM	AMQ road KM 34	Musk-ox	7	Walking	Amaruq		Unknown
2017-07-24	4:00:00 PM	km 9	Caribou	1	Grazing	Jason Fortier		No action required
2017-07-24	3:00:00 PM	km 18	Musk-ox	2	Grazing	Jason Fortier		No action required
2017-07-24	11:00:00 AM	km 49	Musk-ox	2	Unknown	Richard Clarke		No action required
2017-07-24	1:00:00 AM	Unknown	Wolf	1	Unknown	Louis Philippe Breton		Monitored the area
2017-07-26	3:00:00 PM	AMQ road KM 33	Wolverine	1	Walking	Amaruq		Unknown
2017-07-26	11:00:00 AM	AMQ road KM 35	Arctic hare	1	Walking	Amaruq		Unknown
2017-07-26	11:00:00 AM	AMQ road KM 32	Arctic hare	1	Walking	Amaruq		Unknown
2017-07-26	10:00:00 AM	AMQ road KM 17	Musk-ox	1	Walking	Amaruq		Unknown
2017-07-26	10:00:00 AM	AMQ road KM 16	Arctic hare	1	Walking	Amaruq		Unknown
2017-07-26	8:30:00 AM	AMQ road KM 47	Musk-ox	20	Walking	Amaruq		Unknown
2017-07-26	11:00:00 AM	AMQ road km 16	Musk-ox	1	Eating	Jason F.		No action required
2017-07-27	10:30:00 AM	AMQ road KM 21.5	Musk-ox	1	Eating	Isabelle C.		No action required
2017-07-27	11:00:00 AM	By Nova and core shack	Wolf	1	Walking	Fanny Laporte	Jason Fortier	Deterred. Successful
2017-07-27	10:00:00 AM	Landfill	Wolverine	4	Running	Fanny Laporte	Jason Fortier	Monitored the area
2017-07-27	8:00:00 AM	North Cell near CN Burn Pad	Wolverine	1	Walking	Tom T	Isabelle C	Monitored the area
2017-07-27	7:30:00 AM	Between Airstrip and AWR	Wolf	1	Crossing the road	Tom T		Monitored the area
2017-07-28	11:30:00 AM	AMQ road KM 23	Caribou	1	Walking	Amaruq		Unknown
2017-07-28	12:00:00 PM	Landfill	Wolverine	3	Running	Samuel Sevoga		Monitored the area
2017-07-29	12:30:00 PM	AMQ road KM 44	Arctic hare	1	Walking	Amaruq		Unknown
2017-07-29	11:30:00 AM	AMQ road KM 16	Musk-ox	1	Eating	Amaruq		Unknown
2017-07-29	5:00:00 PM	East dike	Fox	1	Running	Fanny Laporte		Monitored the area
2017-07-29	2:00:00 PM	East dike	Musk-ox	1	Grazing	Fanny Laporte		Monitored the area
2017-07-29	12:30:00 AM	Waste Dump	Wolverine	5	Grazing	Tony G		No action required
2017-07-29	9:00:00 AM	AMQ road Km 22	Caribou	1	Running	Isabelle C		Unknown
2017-07-29	4:30:00 PM	AMQ road KM 31	Musk-ox	20	Eating	Isabelle C.		Unknown
2017-07-30	1:30:00 PM	AMQ road KM 18.5	Caribou	1	Walking	Amaruq		Unknown
2017-07-31	12:30:00 PM	Vault road by phaser	Wolf	1	Walking	Tom Thomson	Fanny Laporte	Monitored the area

2017-07-31	8:30:00 AM	Vault road	Wolf	1	Walking	Mine operator		Monitored the area

Meadowbank Wildlife Log - August 2017								
Date	**Time**	**Location**	**Wildlife Species**	**Quantity**	**Behavior**	**Oberver Name #1**	**Observer Name #2**	**Action**
2017-08-01	6:00:00 AM	Vault road by culvert	Wolf	1	Walking	Mine operator		Monitored the area
2017-08-07	12:00:00 AM	AMQ road km 57	Caribou	15		Eric P.		
2017-08-07	7:30:00 AM	AMQ road km 52	Caribou	50		AMQ		
2017-08-07	7:00:00 AM	AMQ road km 25	Caribou	1		Isabelle C.		
2017-08-07	6:00:00 AM	AMQ road km 56.5	Caribou	30	Eating	Isabelle C.		
2017-08-07	6:00:00 AM	AMQ road Km 54	Caribou	25		Isabelle C.		
2017-08-07	6:00:00 AM	AMQ road Km 53.5	Caribou	21		Isabelle C.		
2017-08-07	6:00:00 PM	Vault Road	Wolf	1	Crossing the road	Mine Dispatch		Monitored the area
2017-08-08	3:00:00 PM	AMQ road km 52	Caribou	25		Remi L.		
2017-08-08	12:00:00 PM	AMQ road km 1.5	Wolf	1		Pascal D.		
2017-08-08	10:00:00 AM	AMQ road km 59	Caribou	30		Remi L.		
2017-08-09	8:00:00 PM	AMQ road km 60	Caribou	500		Dave P.		
2017-08-09	2:00:00 PM	AMQ road km 55	Caribou	500		Serge T.		
2017-08-09	10:00:00 AM	AMQ road km 48	Caribou	40		Remi L.		
2017-08-09	9:00:00 AM	Sludge dump	Wolverine	3	Running	Mickael buckett allard	Vannia Michelle Ordaz Rivero	Monitored the area
2017-08-09	4:00:00 PM	AMQ road km 41	Caribou	7	Resting	Patrick Ahern		No action required
2017-08-09	1:30:00 PM	AMQ road km 54-56	Caribou	250	Walking	AMQ user		Close the road
2017-08-10	12:30:00 PM	AMQ road km 38	Caribou	4		Guillaume T.		
2017-08-10	12:00:00 PM	AMQ road km 51	Caribou	50		Serge T.		
2017-08-10	11:30:00 AM	AMQ road km 20	Caribou	20		Yannick D.		
2017-08-10	11:00:00 AM	AMQ road km 61	Wolf	1		HT driver		
2017-08-11	10:00:00 AM	AMQ road km 43	Wolf	1		Olivier J.		
2017-08-11	9:30:00 AM	AMQ road km 42	Caribou	10		Frederick G.		
2017-08-12	10:00:00 AM	AMQ road km 45	Caribou	40		Frederick G.		
2017-08-15	5:30:00 AM	AMQ road km 49	Musk-ox	21		Isabelle C.	Vannia O.	
2017-08-15	3:00:00 AM	AMQ road km 26.5	Caribou	2		Vannia O.	Isabelle C.	
2017-08-15	3:00:00 AM	AMQ road km 17	Caribou	2	Eating	Vannia O.	Isabelle C.	
2017-08-15	2:30:00 AM	AMQ road km 5	Caribou	1	Eating	Isabelle C.	Vannia O.	
2017-08-17	3:00:00 PM	Landfill	Wolverine	2	Running	Isabelle Couture	Martin T.	Monitored the area
2017-08-17	1:30:00 PM	AMQ road km 24	Canada geese	30		Isabelle C.		
2017-08-17	11:00:00 AM	AMQ road km 36	Caribou	10		Isabelle C.		
2017-08-17	11:00:00 AM	AMQ road km 34	Caribou	15		Isabelle C.		
2017-08-17	10:30:00 AM	AMQ road km 23	Caribou	2		Isabelle C.		
2017-08-17	10:00:00 AM	AMQ road km 10	Caribou	15		Isabelle C.		
2017-08-17	10:00:00 AM	AMQ road	Caribou	2		Isabelle C.		
2017-08-19	8:30:00 AM	By genset	Ptarmigan	1	Dead	Fanny Laporte		No action required
2017-08-19	1:30:00 PM	AMQ road km 9	Caribou	30		Isabelle C.		
2017-08-19	10:30:00 AM	AMQ road km 43	Caribou	8		Isabelle C.		
2017-08-19	10:00:00 AM	AMQ road km 36	Caribou	40		Isabelle C.		
2017-08-19	9:30:00 AM	AMQ road km 29.5	Musk-ox	2		Isabelle C.		
2017-08-19	9:30:00 AM	AMQ road km 14.5	Caribou	10		Isabelle C.		
2017-08-19	9:00:00 AM	AMQ road km 8	Canada geese	40		Isabelle C.		
2017-08-19	9:00:00 AM	AMQ road km 7.5	Caribou	4	Eating	Isabelle C.		No action required
2017-08-19	9:00:00 AM	AMQ road km 6.5	Caribou	2		Isabelle C.		No action required
2017-08-22	6:30:00 PM	Vault road	Caribou	1	Grazing	Fanny Laporte	Isabelle C.	Monitored the area
2017-08-23	4:30:00 PM	AMQ road km 43	Caribou	2		Isabelle C.		
2017-08-23	2:30:00 PM	AMQ road km 15	Caribou	4		Isabelle C.		
2017-08-23	2:30:00 PM	AMQ road km 12	Caribou	2		Isabelle C.		
2017-08-23	2:00:00 PM	AMQ road km 9	Caribou	15		Isabelle C.		
2017-08-23	12:00:00 PM	Vault road	Caribou	2	Running	Fanny L.	Isabelle C.	Monitored the area

2017-08-24	11:00:00 AM	Vault road	Caribou	8	Grazing	Fanny Laporte		Monitored the area
2017-08-28	11:30:00 AM	AMQ road km 23	Caribou	1	Walking	AMQ		
2017-08-29	6:00:00 AM	Vault road	Arctic hare	1	Dead	Ghislain Gingras		No action required
2017-08-31	1:00:00 PM	AWAR	Wolverine	1	Walking	AWAR driver		No action required

WILDLIFE REPORT MEADOWBANK - SEPTEMBER 2017								
Date	**Time**	**Location**	**Wildlife Species**	**Quantity**	**Behavior**	**Observer Name #1**	**Observer Name #2**	**Action**
9/1/2017	1:00:00 PM	AMQ road (KM 26)	Caribou	3	Walking	Amaruq operator		Monitored the area
9/1/2017	10:30:00 AM	AMQ road (KM 18)	Caribou	4	Walking	Amaruq operator		Monitored the area
9/2/2017	10:00:00 AM	AMQ road (KM 45)	Caribou	3	Walking	Amaruq operator		Monitored the area
9/2/2017	8:00:00 AM	AMQ road (KM 9)	Caribou	6	Eating	Amaruq operator		Monitored the area
9/4/2017		Vault area	Musk-ox	15		Martin Theriault	Robin Allard	No action required
9/6/2017			Musk-ox	15		Martin Theriault		No action required
9/6/2017	11:00:00 AM	AMQ road (KM 59)	Caribou	6	Unknown	Raphael Simard		Monitored the area
9/6/2017	9:30:00 AM	AMQ road (KM 24)	Wolf	2	Unknown	Raphael Simard		Monitored the area
9/7/2017	5:30:00 PM	Meadowbank - west of Diversion ditch	Caribou	2	Grazing	Jamie K	David T	
9/7/2017	5:00:00 PM	AMQ road (KM 3)	Caribou	5	Resting	Jamie K	David T	
9/9/2017	3:00:00 PM	AMQ road (KM 23)	Sandhill cranes	50	Unknown	Amaruq operator		Monitored the area
9/9/2017	12:30:00 PM	AMQ road (KM 14)	Caribou	5	Unknown	Amaruq operator		Monitored the area
9/10/2017	12:30:00 PM	AMQ road (KM 94)	Caribou	1	Walking	Dino S		
9/11/2017	6:30:00 AM	AWAR	Musk-ox	2	Grazing	Richard Clarke		
9/11/2017	8:30:00 AM	AWAR	Caribou	1	Grazing	Ronnie N		
9/11/2017	4:30:00 PM	AWAR	Musk-ox	3	Walking	Ronnie N		
9/12/2017	6:30:00 AM	AWAR	Caribou	1	Walking	Ronnie N		
9/12/2017	8:00:00 AM	AWAR	Wolf	2	Walking	Ronnie N		
9/13/2017	7:00:00 AM	AWAR	Caribou	9	Unknown	Serge Cote		Monitored the area
9/14/2017	10:00:00 AM	AWAR	Wolf	1	Walking	Alexander Attungala		No action required
9/14/2017	2:00:00 PM	AMQ road (KM 56)	Wolf	1	Unknown	Serge Cote		Monitored the area
9/14/2017	4:00:00 PM	Vault road	Caribou	6	Grazing	Fanny Laporte	Martin T.	Monitored the area
9/15/2017	3:00:00 AM	EMR	Musk-ox	2	Grazing	Stephen Potvin		Monitored the area
9/15/2017	10:00:00 AM	Vault road	Caribou	1	Grazing	Fanny Laporte		Monitored the area
9/15/2017	6:00:00 PM	AMQ road (KM 24)	Caribou	3	Unknown	Serge Cote		Monitored the area
9/16/2017	7:00:00 AM	AWAR	Wolf	1		Deno Stagg		No action required
9/16/2017	9:00:00 AM	AWAR	Caribou	4		Nolan Aupaluktuq		No action required
9/16/2017	3:30:00 PM	AMQ road (KM 27)	Caribou	6	Unknown	Serge Cote		Monitored the area
9/17/2017	8:00:00 AM	AMQ road (KM 23)	Caribou	5	Unknown	Serge Cote		Monitored the area
9/17/2017	8:00:00 AM	AWAR	Musk-ox	20	Grazing	Richard Clarke AFS		No action required
9/18/2017	7:00:00 AM	AWAR	Wolf	1		Christopher Kashla		No action required
9/18/2017	8:30:00 AM	Meadowbank	Fox	1	Unknown	Claude Tremblay		Monitored the area
9/18/2017	7:00:00 PM	AMQ road (KM 26)	Caribou	5	Unknown	Serge Cote		Monitored the area
9/18/2017	8:00:00 PM	AMQ road (KM 22)	Caribou	7	Unknown	Serge Cote		Monitored the area
9/19/2017	4:00:00 AM	AWAR	Peregrine falcon	4		Fanny Laporte `	VIctor U	No action required
9/19/2017	6:00:00 PM	AMQ road (KM 21)	Caribou	4	Unknown	Serge Cote		Monitored the area
9/20/2017	2:00:00 AM	AWAR	Caribou	1		David Kautaq PEL		No action required
9/20/2017	3:00:00 AM	Vault area	Caribou	6	Crossing the road	Fanny Laporte	Mine dispatch	Monitored the area
9/20/2017	5:00:00 PM	AMQ road (KM 7.5)	Wolverine	1	Unknown	Serge Cote		Monitored the area
9/21/2017	2:00:00 PM	AMQ road (KM 62)	Caribou	2	Unknown	Claude Tremblay		Monitored the area
9/21/2017	4:00:00 PM	AMQ road (KM 19)	Caribou	3	Unknown	Serge Cote		Monitored the area
9/22/2017	1:00:00 AM	Vault road	Caribou	2	Resting	Fanny Laporte		Monitored the area
9/22/2017	3:00:00 PM	AMQ road (KM 37)	Musk-ox	7	Unknown	Serge cote		Monitored the area
9/22/2017	11:00:00 PM	AWAR	Peregrine falcon	4		Fanny Laporte	Victor Utatnaq	Monitored the area
9/25/2017	9:00:00 PM	Vault area	Caribou	4		Mine Dispatch Clarence T		Monitored the area

WILDLIFE REPORT MEADOWBANK - OCTOBER 2017								
Date	**Time**	**Location**	**Wildlife Species**	**Quantity**	**Behavior**	**Observer Name #1**	**Observer Name #2**	**Action**
10/1/2017	11:00:00 AM	Amaruq road	Musk-ox	1	Eating	Isabelle C.		
10/8/2017	4:30:00 PM	Meadowbank	Fox	1	Fighting	Barney Nanoolook		Monitored the area
10/8/2017	4:00:00 PM	Meadowbank	Wolverine	1	Running	Dispatch		
10/8/2017	8:00:00 AM	Meadowbank	Fox	1		dispatch		
10/10/2017	3:30:00 PM	Meadowbank	Peregrine falcon	1	Flying	Fanny Laporte	Andre Rouleau	Monitored the area
10/10/2017	7:30:00 AM	Meadowbank	Wolverine	1	Running	Sarah/Housekeeping		Monitored the area
10/12/2017	5:30:00 PM	AWAR	Caribou	1000	Grazing	Arctic fuel driver		Monitored the area
10/12/2017	2:00:00 PM	AWAR	Caribou	100	Grazing	Arctif fuel driver		Monitored the area
10/13/2017	7:30:00 PM	AWAR	Caribou	200	Walking	Fanny Laporte		Monitored the area
10/14/2017	5:00:00 PM	AWAR	Caribou	400	Grazing	AFS driver		Monitored the area
10/14/2017	4:30:00 PM	Meadowbank -EMR	Wolf	2	Walking	AWAR user		Monitored the area but no sight
10/14/2017	4:30:00 AM	AWAR	Caribou	100	Walking	Philippe De Grandmaison		Monitored the area
10/15/2017	8:30:00 AM	AWAR	Musk-ox	2	Grazing	Fanny Laporte		No action required
10/15/2017	9:00:00 AM	AWAR	Caribou	200	Grazing	Fanny Laporte		Monitored the area
10/15/2017	2:00:00 PM	Spud barge - Baker Lake	Peregrine falcon	1	Immobile	Fanny Laporte		Monitored the area
10/15/2017	8:30:00 AM	AWAR	Arctic hare	1	Dead	Fanny Laporte		
10/17/2017	3:00:00 PM	AWAR	Caribou	15	Walking	AFS driver		Monitored the area
10/18/2017	6:30:00 PM	Meadowbank	Wolverine	1	Immobile	Fanny Laporte		Monitored the area
10/26/2017	7:00:00 PM	AWAR	Caribou	1000	Crossing the road	Jamie K		Closed the road
10/26/2017	5:00:00 PM	AWAR	Caribou	1000	Grazing	Arctic Fuel Ronnie	BL Gatehouse	Monitored the area
10/26/2017	3:30:00 AM	AWAR	Caribou	100	Grazing	Jamie K		Monitored the area
10/26/2017	4:00:00 PM	AWAR	Caribou	9	Grazing	Jamie K		Monitored the area

WILDLIFE REPORT MEADOWBANK - NOVEMBER 2017								
Date	**Time**	**Location**	**Wildlife Species**	**Quantity**	**Behavior**	**Observer Name #1**	**Observer Name #2**	**Action**
11/3/2017	12:30:00 PM	Meadowbank	Wolf	1		Walter		Monitored the area but no sight
11/4/2017	11:00:00 AM	Amaruq road	Wolverine	1	Running	Martin Theriault	Jeff KIA	No action required
11/5/2017	10:00:00 AM	AWAR	Wolf	2		Martin Theriault	Jeff KIA	No action required
11/8/2017	1:00:00 PM	AWAR	Caribou	5	Grazing	AFS driver Ronnie		Monitored the area
11/8/2017	12:30:00 PM	AWAR	Wolf	2	Walking	Ron Falardeau		No action required
11/8/2017	4:30:00 PM	Meadowbank	Caribou	2	Grazing	Junior from E&I		Monitored the area
11/9/2017	3:00:00 PM	AWAR	Caribou	2	Crossing the road	Ronnie Nagyougalik		No action required
11/9/2017	10:00:00 AM	Meadowbank	Caribou	1	Sick or wounded	Fanny Laporte		Monitored the area
11/9/2017	11:30:00 AM	camp	Wolverine	1		Laurie Stewart		No action required
11/10/2017	12:00:00 PM	AWAR	Musk-ox	6		Martin Theriault		No action required
11/10/2017	11:00:00 AM	AWAR	Caribou	25		Martin Theriault		No action required
11/10/2017	5:30:00 PM	AWAR	Musk-ox	1		Donald Gauthier		No action required
11/10/2017	2:30:00 PM	AWAR	Caribou	10	Grazing	Alexander Attungala		No action required
11/11/2017	6:00:00 PM	Meadowbank	Fox	2	Running	Sarah housekeeping		Monitored the area but no sight
11/12/2017	12:30:00 PM	Amaruq	Wolf	2	Walking	Robert Badiu	JF Desmeules	No action required
11/13/2017	11:00:00 AM	Meadowbank	Wolf	1		AFS driver		No action required
11/14/2017	11:00:00 AM	AWAR	Caribou	8	Walking	Alexander Attungala		Monitored the area
11/14/2017	11:00:00 AM	Meadowbank	Wolverine	1	Running	Fanny Laporte	Martin Theriault	Deterred. Successful
11/16/2017	3:30:00 PM	Meadowbank	Wolverine	1	Running	Fanny L	Tom T	No action required
11/18/2017	3:00:00 PM	Meadowbank	Wolverine	1	Running	Chris E&I		Monitored the area
11/23/2017	4:30:00 PM	Meadowbank	Wolf	1	Walking	Tom T		Monitored the area but no sight
11/23/2017	11:00:00 AM	Meadowbank	Wolverine	1	Running	Mine dispatch		Monitored the area but no sight
11/24/2017	12:30:00 PM	Meadowbank	Wolverine	1	Walking	Mine Dispatch		
11/24/2017	10:00:00 AM	Meadowbank	Wolverine	3	Observing	Tom T	Jamie K	Monitored the area
11/24/2017	8:30:00 AM	Meadowbank	Wolverine	1	Crossing the road	Mine Dispatch	Jamie K	Monitored the area but no sight
11/24/2017	7:30:00 AM	Meadowbank	Wolf	1	Crossing the road	Mine Dispatch		Monitored the area but no sight
11/25/2017	12:30:00 PM	Meadowbank	Wolverine	1	Observing	Laurier Godin		
11/26/2017	3:00:00 PM	Meadowbank - EMR	Ptarmigan	15	Eating	Jamie K	Tom T	
11/27/2017	3:30:00 PM	Meadowbank	Wolverine	1	Walking	FGL/Sana Dispatch		Monitored the area but no sight
11/27/2017	12:00:00 PM	Meadowbank	Wolf	1	Running	Mine dispatch		
11/28/2017	4:00:00 PM	Meadowbank	Wolf	1		Vincent Durendeau		Monitored the area but no sight
11/30/2017	12:00:00 PM	Meadowbank - EMR	Wolf	2		Dyno worker		No action required

MEADOWBANK WILDLIFE REPORT - DECEMBER 2017								
Date	**Time**	**Location**	**Wildlife Species**	**Quantity**	**Behavior**	**Oberver Name #1**	**Observer Name #2**	**Action**
12/2/2017	9:30:00 PM	Meadowbank	Wolf	1	Sick or wounded	Jason Laforce		Closed the road
12/3/2017	1:00:00 PM	Meadowbank	Wolverine	1	Hiding	Jamie Kataluk	Martin Theriault	Deterred. Successful
12/4/2017	7:00:00 PM	Meadowbank	Wolverine	1	Walking	Martin Theriault	Patrick (E.I.)	Deterred. Successful
12/6/2017	9:00:00 AM	Meadowbank	Wolverine	1	Running	Martin T	Fanny L	Monitored the area
12/11/2017	2:30:00 PM	Meadowbank	Caribou	20	Grazing	Fanny Laporte	Mathieu Paradis	Monitored the area
12/12/2017	3:30:00 AM	Meadowbank	Wolverine	1	Running	Fanny Laporte	E&I operators	Deterred. Successful
12/12/2017	3:00:00 PM	Meadowbank	Fox	1	Dead	Fanny Laporte		Monitored the area
12/13/2017	1:30:00 PM	Meadowbank	Caribou	10	Walking	Fanny Laporte		Monitored the area
12/14/2017	11:00:00 AM	Amaruq	Musk-ox	7	Grazing	Richard Jackson		No action required
12/14/2017	12:00:00 PM	Meadowbank	Caribou	20	Grazing	Fanny Laporte	Steve Paquin	Monitored the area
12/16/2017	12:00:00 PM	Amaruq	Musk-ox	14	Grazing	Fanny L.		No action required
12/16/2017	1:00:00 PM	Amaruq	Caribou	16	Walking	Fanny Laporte		No action required
12/16/2017	12:30:00 PM	Amaruq	Musk-ox	1	Grazing	Fanny L.		No action required
12/16/2017	11:00:00 AM	Amaruq	Musk-ox	7	Grazing	Fanny L.		No action required
12/16/2017	12:30:00 PM	Amaruq	Musk-ox	10	Grazing	Fanny l.		No action required
12/17/2017	9:00:00 AM	Amaruq	Arctic hare	1	Grazing	Fanny Laporte	Sana H&S guy	No action required
12/18/2017	12:00:00 PM	Meadowbank	Caribou	30	Grazing	Fanny Laporte		Monitored the area
12/18/2017	4:30:00 PM	Meadowbank	Wolf	2	Walking	Mario Pumpman	Fanny Laporte	Monitored the area
12/18/2017	4:00:00 PM	Meadowbank	Wolf	5	Walking	HTR driver		Monitored the area but no sight
12/18/2017	11:30:00 AM	Meadowbank	Wolverine	1	Running	Fanny laporte		Monitored the area
12/19/2017	1:30:00 PM	Meadowbank	Caribou	20	Grazing	Tom T		Monitored the area
12/20/2017	4:00:00 PM	Meadowbank	Caribou	30	Grazing	Tom T	Isabelle C	Monitored the area
12/20/2017	10:30:00 AM	Meadowbank	Wolverine	1	Running	Nicolas S		Monitored the area but no sight
12/23/2017	6:30:00 PM	Meadowbank	Fox	7	Eating	Brian I	Tom T	Monitored the area
12/23/2017	1:30:00 AM	Meadowbank	Fox	2	Unknown	Charles B		No action required
12/24/2017	3:30:00 PM	Meadowbank	Wolf	1	Walking	Tom T		Monitored the area
12/24/2017	1:00:00 PM	Meadowbank	Wolverine	1	Walking	Mine Dispatch		No action required
12/24/2017	4:00:00 AM	Meadowbank	Wolf	1	Walking	Housekeeping		Monitored the area but no sight
12/25/2017	1:30:00 PM	Meadowbank	Wolverine	1	Walking	Tom T		Deterred. Successful
12/25/2017	12:30:00 PM	Meadowbank	Caribou	30	Grazing	Tom T		Monitored the area
12/25/2017	1:00:00 PM	Meadowbank	Wolf	1	Walking	Tom T		Monitored the area but no sight
12/26/2017	10:30:00 PM	Meadowbank	Wolverine	1	Observing	Travis Mannik		Monitored the area
12/26/2017	11:00:00 AM	Meadowbank	Wolverine	1	Walking	Laurier G		Monitored the area
12/26/2017	3:30:00 PM	Meadowbank	Wolverine	1	Observing	Sarah Anirniq		Monitored the area
12/27/2017	2:00:00 PM	Meadowbank	Wolverine	1	Running	Jamie K	Martin T	Deterred. Successful
12/27/2017	5:00:00 PM	Meadowbank	Fox	1	Immobile	Aaron P	Martin T	Deterred. Successful
12/27/2017	6:00:00 PM	Meadowbank	Wolverine	1	Running	Aaron Parker		Monitored the area but no sight
12/28/2017	12:30:00 PM	Meadowbank	Caribou	6	Grazing	Martin T	Jamie K	No action required

12/28/2017	9:30:00 AM	Meadowbank	Wolverine	1	Running	Jamie K	Martin T	Monitored the area
12/28/2017	6:30:00 PM	Meadowbank	Wolverine	1	Eating	Martin Theriault		Monitored the area
12/28/2017	4:30:00 PM	Meadowbank	Wolf	1	Resting	Jamie K		Deterred. Successful
12/29/2017	10:00:00 AM	Meadowbank	Wolf	1	Running	Martin T	Jamie K	No action required
12/29/2017	1:30:00 PM	Meadowbank	Wolf	1	Running	Mathieu Paradis		Monitored the area but no sight
12/29/2017	10:00:00 AM	Meadowbank	Wolf	1	Walking	jamie K	Martin T	Monitored the area
12/30/2017	9:30:00 AM	Amaruq	Musk-ox	1	Immobile	Denis Gosselin		No action required
12/30/2017	11:00:00 AM	Meadowbank	Wolverine	2	Fleeing	Orest H		Monitored the area but no sight
12/30/2017	5:00:00 PM	Meadowbank	Wolverine	1	Eating	Martin T		Monitored the area
12/31/2017	9:00:00 PM	Meadowbank	Wolverine	1	Walking	André (kitchen)		Monitored the area but no sight

APPENDIX B

2017 Wildlife Mitigation Documentation

From:	Robin Allard
To:	Isabelle Couture
Subject:	FW: raven nest
Date:	February 9, 2018 11:18:05 PM
Attachments:	image001.jpg image002.jpg image003.jpg image004.jpg image005.png image006.jpg image007.jpg image008.jpg image009.jpg image010.jpg image011.png
Importance:	High

---

fyi

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

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Baker Lake, Nunavut, Canada
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From: Toolooktook, Russell [mailto:rtoolooktook@GOV.NU.CA]
Sent: Tuesday, April 18, 2017 3:08 PM
To: Martin Theriault
Cc: Meadowbank Environment; Harmer, Rob
Subject: RE: raven nest
Importance: High

Good day Martin and the Environment team,

I got an exemption permit to remove the nests from my department but then we had some weather and I got ill mid-last week. I removed the nest today on tank 6 which contained three frozen eggs, one more frozen egg was hidden underneath other debris that was used to build the nest. Tank #5 had only a few twigs and not an actual nest.

As for prevention of nest building, those orange plastic fencing was only one of the section of the stairs, at lower section of stairs than the actual nest site; perhaps have the plastic fencing on each of

those square areas all along the staircase where the nests are being built each year. The Plastic Owl decoys have no effect on the Ravens as well, perhaps another kind of decoy that moves in the wind may be a solution?

Regards,

E-mail signature template_FINAL (2)

From: Martin Theriault [mailto:martin.theriault@agnicoeagle.com]
Sent: April 5, 2017 2:45 PM
To: Toolooktook, Russell
Cc: Meadowbank Environment
Subject: raven nest

Hi Russell,

We have raven nests in the stairs leading up to our tanks in Baker Lake. We have employees that need to perform fuel level on these tanks and this represent a H/S risk.

What kind of action would you suggest?

Regards

Martin Theriault
Environmental Technician

martin.theriault@agnicoeagle.com

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From:	Robin Allard
To:	Isabelle Couture
Subject:	FW: injured fox
Date:	February 9, 2018 11:28:23 PM
Attachments:	image001.jpg image002.jpg image003.jpg image004.jpg image005.png image006.jpg image007.jpg image008.jpg image009.jpg image010.png

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From: Jamie Kataluk
Sent: Tuesday, June 06, 2017 1:13 PM
To: Arsenault, Robert; rtoolooktook@gov.nu.ca
Cc: Robin Allard
Subject: RE: injured fox

Good afternoon
Welcome to Bake Lake, I just got back to site today for a week. Will send another update before the end of my shift

---

From: Arsenault, Robert [mailto:RArsenault@GOV.NU.CA]
Sent: Thursday, May 25, 2017 1:36 PM
To: Toolooktook, Russell; Jamie Kataluk; Martin Archambault; Robin Allard
Cc: Harmer, Rob
Subject: RE: injured fox

Hello Jamie,

I have been advised by an AEM Environmental Technician that you are currently on leave. Also I found that the injured Arctic Fox has not been seen since the initial sighting. At this point we are going to close the file, however if you do observe the fox again, please let us know.

Thank you,

Rob Arsenault
Conservation Officer II
Baker Lake, NU, X0C 0A0
RArsenault@gov.nu.ca
Work: 867-793-2944
Cell: 867-793-1692

From: Toolooktook, Russell
Sent: May 23, 2017 9:02 AM
To: 'Jamie Kataluk'; Martin Archambault; Robin Allard
Cc: Arsenault, Robert; Harmer, Rob
Subject: RE: injured fox

Thanks Jamie for the update.

As of today, CO II Rob Arsenault has started work at the wildlife office in Baker Lake; please include him in any wildlife or environmental issues/occurrences around the mine site/Amaruq and Baker Lake.

Thank you,

Russell

From: Jamie Kataluk [mailto:jamie.kataluk@agnicoeagle.com]
Sent: May 22, 2017 11:23 AM
To: Toolooktook, Russell; Martin Archambault; Robin Allard
Subject: RE: injured fox

Good morning
An update on the fox, after reporting the fox to you via phone, the fox was not in the spot where it was spotted. Did walk around the premises of the Environment office towards the Incinerator and Transit laydown were completed 2 times a day to look for the fox without any observance. We will keep monitoring areas to find the fox. If you have any questions please do not hesitate to contact us. Thank you for your time and cooperation, have a good day

---

From: Jamie Kataluk
Sent: Tuesday, May 16, 2017 3:50 PM
To: rtoolooktook@gov.nu.ca; Martin Archambault; Erika Voyer
Cc: Martin Theriault; Robin Allard
Subject: injured fox

Good afternoon

Around 3:20 an employee came into our office to inform us of an injured fox which is outside our Environment office, we went to go have a look at the fox and it was between our office and garage. The fox appears to have a broken leg – front right, fur on the belly is full of blood.

Jamie Kataluk
Sr. Environmental Technician

jamie.kataluk@agnicoeagle.com

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AGNICO EAGLE
MEADOWBANK

SAFETY TOOL BOX MEETING

Topic: Recreational Walking and Running

Safety Notice

Focus: keeping people out of Harm's way

Unsafe for Walking / Running

We've had frequent reports and sightings of wolves around the Camp, and Wolverines

That's why we are suspending officially recreational Walking/Running.

I understand that with cold weather and conditions, chances are slim of people going out but we just want to cover any possible gaps.

Please shares will all employees – Never feed Wild life

Thank you to the Environnemental Department

Health and Safety Department

Working together for an accident-free workplace

From:	Robin Allard
To:	Isabelle Couture
Subject:	FW: wildlife issues
Date:	February 9, 2018 11:21:37 PM
Attachments:	image001.jpg image002.jpg image003.jpg image004.jpg image005.png image006.jpg image007.jpg image008.jpg image009.jpg image010.png

---

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From: Jamie Kataluk
Sent: Wednesday, February 15, 2017 2:47 PM
To: Meadowbank Environment
Cc: rtoolooktook@gov.nu.ca
Subject: wildlife issues

Good afternoon everyone,
As per Robin's request I went and seen Baker Lake Conservation officer to give him an update of the wolves that are staying around Tailings pond. Advised him of the situation and he suggested that we deter them using snowmobiles and deterrent rounds such as rubber buck/slug shots but not to shoot them when we are too close to prevent from injuring them. Whenever possible, deter them using snowmobiles. As of press time we haven't seen them nor have they been reported, will not be able to do any deterring with snowmobiles as it's blizzard conditions here on site.

Russell – if you have anything else to add to this please do not hesitate to contact Meadowbank Environment. Thank you for your time and have a good day

Jamie Kataluk

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Appendix B Migration Meetings and Road Closure - October/November 2017				
Date	**Time**	**Meeting/Event**	**Attendees**	**Decision/Aggrement**
2017-10-26	19h	reports of lots of caribou on AWAR	ENV	After inspection by ENV, road is closed for all night until further inspection
2017-10-27	day	AWAR inspection combined with INAC inspection	ENV, KIA, INAC	After inspection by ENV, KIA agreement that road remains closed but daily ride escorted north and south.
2017-10-28	day	AWAR inspection	ENV, KIA	road closed, return to BL, Jeff Hart ask that map with locations be sent (similar to MEL)
2017-10-30	day	AWAR inspection	ENV, KIA, HTO	road closed, return to BL, Jeff Hart ask that map with locations be sent, including # of animals
2017-10-31	day	AWAR inspection	ENV, KIA, HTO	road closed, return to BL
2017-01-11	13h	Jeff Hart and Jamie Kataluk arrived on site after monitoring the AWAR in the morning Jeff Tullugak (KIA) arrived on site with Kivallik Charter	NA	NA
2017-02-11	13h	Meeting held on third floor	Pierre Laberge, Erika Voyer, Martin Archambault, Jamie Kataluk, Martin Theriault, Harold Putumiraqtuq (HTO member), Jeff Tulugak (KIA), Jeff Hart (KIA)	Agreement on minimizing transport during night - convoy should be done during day light. Convoy crew need to be ready to stop and wait on the road for the caribou to pass. Allowed convoy for 3/11/2017 on the AWAR for fuel tankers and daily ride. Assessment will be conducted in the afternoon by KIA/AME and tomorrow to see if a fuel convoy will be possible on AMQ road, if we need to close the road as the herds migrate there.

2017-02-11	14h	Call from the HTO - Richard Aksawnee	Richard Aksawnee (HTO), Martin Archambault	Discussion with Martin Archambault and Richard Aksawnee. HTO agrees with the convoy on the AWAR planned for 03/11/2017.
2017-02-11	Afternoon	Discussion with Jeff Tullugak (KIA)	Jeff Tulugat (KIA) Martin Thériault, Martin Archambault, Érika Voyer	Allowed convoy for fuel tanker with an escort with Environment tech. From Amaruk
2017-03-11	12h	Meeting at the cafeteria	Erika Voyer, Jeff Hart (KIA), Jamie Kataluk, Martin Theriault, Russell Toolooktook (GN), Robert Arsenault (GN)	Decision to take the daily ride back to Baker Lake in covoy with environment truck (HTO, KIA, Env.) untill km 80. Decision to take the tankers to Baker Lake in covoy with environment truck (HTO, KIA, Env.) untill km 80. There are less caribou, but the AWAR is not ready to be re-opened yet. We will get ready for another covoy of fuel from Baker tomorrow morning.
2017-03-11	18h	Meeting at the cafeteria	Jeff Tulugak (KIA) Martin Thériault, Martin Archambault	Decision to make another convoy for fuel and emulsion for November 4th with escort. Less caribou on the road than the day before (~200 total) AMQ
2017-04-11	9h	Baker Lake	Jamie K. and Jeff Hart	They escorted a convoy of tanker from Baker Lake to Meadowbank. Convoy arrived, finally, late in the evening in Meadowbank. Drivers have been slept on site.
2017-04-11	12h	Meeting at the cafeteria	Jeff Tulugak (KIA) Martin Thériault, Martin Archambault	After wildlife survey in the morning (Jeff T. and Martin T.) it was decide to re-open the AMQ road.
2017-04-11	12h	Meeting at the cafeteria	Jeff Tullugat (KIA) Martin Thériault, Martin Archambault	Monitoring after lunch the North part of AWAR. Caribou between km 90 and km 102.
2017-04-11	18h	Meeting at the cafeteria	Jeff Tulugak (KIA) Martin Thériault, Martin Archambault	It was decide to monitoring the AWAR before the empty tankers leave the site.

2017-05-11	7h	Meeting at the cafeteria	Jeff Tulugak (KIA) Martin Thériault, Martin Archambault, Érika Voyer	After monitoring it was decided to go South with the tankers and go back after on site for fuel delivery. Always in collaboration with the KIA member. (Jamie Kataluk, Harold ?(HTO member) escorted the convoy
2017-05-11	18h	Meeting at the cafeteria	Jamie Kataluk, Erica Voyer, Martin Thériault, Martin Archambault	Jamie resume the last monitoring. It was decided to perform a wildlife survey tomorrow morning and a decision will be take if the road will be re-open
2017-06-11	8h	AWAR inspection	Martin Archambault, Laurier Godin	The number of caribou had decreased. They are between Km 80 to km 104
2017-06-11	10h30	Consultation	Martin Archambault, Laurier Godin, Martin Thériault, Jamie Kataluk	After discussion together and considering the position (over 100 m from the road) of the little herd we decided to advise KIA that we re-open the road with restriction of the speed limit around Km 80 to the mine site.
2017-06-11	11h30	Phone call	Jeff Hart, Martin Archambault	Discussion about the situation and Jeff Hart agree to re-open the road with restriction for the speed limit.
2017-06-11	11h50	Corespondance	Jeff Hart, Martin Archambault, Erica Voyer, Jamie Kataluk, Jeff Tulugak, Brenda Osmond, Robin Allard	An email was sent to advised that the road was re-open

ROAD CLOSURES							
Date		**AWAR**	**Comments**	**Vault Rd**	**Comments**	**AMQ Road**	**Comments**
26/10/2017	Day	Open		Open		Open	
	Night	Closed	(at 20h)	Open		Open	
27/10/2017	Day	Closed	DR escorted by environment truck	Open		Open	
	Night	Closed		Open		Open	
28/10/2017	Day	Closed		Open		Open	
	Night	Closed		Open		Closed	(at 18h)
29/10/2017	Day	Closed		Open		Open	
	Night	Closed		Open		Open	
30/10/2017	Day	Closed		Open		Open	
	Night	Closed		Open		Open	
31/10/2017	Day	Closed		Open		Open	
	Night	Closed		Open		Open	
2017-01-11	Day	Closed		Closed to hauling, only authorized vehicles allowed	(at 11h30am)	Open	
	Night	Closed		Closed to hauling, only authorized vehicles allowed		Open	
2017-02-11	Day	Closed		Closed to hauling, only authorized vehicles allowed		Open	
	Night	Closed		Closed to hauling, only authorized vehicles allowed		Closed, restricted to ERT only	(close at 7pm)

2017-03-11	Day	Closed	Convoy allowed for fuel and DR	Closed until 11h00am, Open after		Closed, restricted to ERT only	
	Night	Closed					
	Day						
	Night						

From:	Robin Allard
To:	Russel Toolooktook; bakerhto@qiniq.com; Jeff Hart; Robert Arsenault
Cc:	Meadowbank Environment; Meadowbank Environment Supervisors; Karen Yip; Stephane Larose; Laurier Godin; Luc Chouinard
Subject:	Meadowbank AWAR Closed_October 26th
Date:	October 27, 2017 1:13:00 PM
Attachments:	image001.jpg image006.jpg image007.jpg image008.jpg image009.png

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Good day,

Since a large group of caribou was reported along Meadowbank's AWAR (km 35), we've decided to close the road at 20:00 last night, October 26th until noon October 27th.
We will have crews monitoring the road today to see if further actions are needed.
Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

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From:	Robin Allard
To:	Russel Toolooktook; bakerhto@qiniq.com; Jeff Hart; Robert Arsenault
Cc:	Meadowbank Environment; Meadowbank Environment Supervisors; Karen Yip; Stephane Larose; Laurier Godin; Luc Chouinard
Subject:	Meadowbank AWAR Closed_October 27-28th
Date:	October 29, 2017 1:15:00 AM
Attachments:	image001.jpg image006.jpg image007.jpg image008.jpg image009.png

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Good evening,

With increasing presence along the AWAR between kilometer 20 to 30, the road has remained closed throughout the day of the 27th and 28th.

Our department was present consistently during the day and we will keep monitoring the situation with guidance and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

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From:	Robin Allard
To:	Russel Toolooktook; bakerhto@qiniq.com; Jeff Hart; Robert Arsenault
Cc:	Meadowbank Environment; Meadowbank Environment Supervisors; Karen Yip; Stephane Larose; Laurier Godin; Luc Chouinard
Subject:	Amaruq road restricted access_October 28th
Date:	October 29, 2017 2:01:05 AM
Attachments:	image001.jpg image002.jpg image003.jpg image004.jpg image005.png

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Good evening,

Some observation were made of roughly 150 caribou at km 8 of the Amaruq road at 18h00. They were located at roughly on the west side at +/- 800 meters from the road.

With increasing presence along our access roads it was decided that traffic would be restricted on the Amaruq road until reassessment tomorrow.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

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From: Robin Allard
To: Russel Toolooktook; bakerhto@qiniq.com; Jeff Hart; Robert Arsenault
Cc: Meadowbank Environment; Meadowbank Environment Supervisors; Karen Yip; Stephane Larose; Laurier Godin; Luc Chouinard
Subject: Meadowbank AWAR Closed_October 29th
Date: October 30, 2017 2:35:00 AM
Attachments: image001.jpg
image002.jpg
image003.jpg
image004.jpg
image005.png
image008.jpg

Good evening,

With increasing presence along the AWAR between kilometer 20 to 28, the road has remained closed throughout the day of the 29th.

Our department was present consistently during the day and we will keep monitoring the situation with guidance from BL HTO and KIA member and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

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From:	Robin Allard
To:	Russel Toolooktook; bakerhto@qiniq.com; Jeff Hart; Robert Arsenault
Cc:	Meadowbank Environment; Meadowbank Environment Supervisors; Karen Yip; Stephane Larose; Laurier Godin; Luc Chouinard
Subject:	Amaruq road end of restricted access_October 29th
Date:	October 30, 2017 1:49:10 AM
Attachments:	image001.jpg image002.jpg image003.jpg image004.jpg image005.png

---

Good evening,

No caribou observations were made on the Amaruq road today, therefore the road was opened without restriction.

Be assured that Agnico will continue to monitor the situation and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

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From: Robin Allard
To: Russel Toolooktook; bakerhto@qiniq.com; Jeff Hart; Robert Arsenault; Jeff Tulugak; Luis Manzo (lmanzo@kivalliqinuit.ca)
Cc: Meadowbank Environment; Meadowbank Environment Supervisors; Karen Yip; Stephane Larose; Laurier Godin; Luc Chouinard; Pierre Laberge
Subject: Meadowbank AWAR Closed_November 1st
Date: November 2, 2017 2:31:03 AM
Attachments: image001.jpg
image002.jpg
image003.jpg
image004.jpg
image005.jpg
image007.png

Good evening,

Caribou presence has shifted north again along the AWAR between kilometer 90 to 100, roughly 2000 caribou were observed, the road has remained closed throughout the day of the 1st Smaller groups were noticed from km 50 to 70, total is estimated at roughly 750 caribou.

On the Vault hauling road, an estimated 1500 caribou were monitored at a distance and all hauling traffic was also stopped, starting at 11:00 on November 1st.

Our department was present consistently during the day and we will keep monitoring the situation with guidance from BL HTO and KIA members and will keep you informed of any change and/or development.

If you have any questions, please do not hesitate,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

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From: Martin Archambault
To: Russel Toolooktook; bakerhto@qiniq.com; Jeff Hart; Robert Arsenault; Jeff Tulugak; Luis Manzo (lmanzo@kivalliqinuit.ca)
Cc: Meadowbank Environment; Meadowbank Environment Supervisors; Karen Yip; Stephane Larose; Laurier Godin; Luc Chouinard; Pierre Laberge
Subject: RE: Meadowbank AWAR Closed_November 1st
Date: November 4, 2017 4:39:39 PM
Attachments: image006.jpg
image008.jpg
image009.jpg
image010.jpg
image011.png
image003.jpg

Good day,

This is the latest caribou monitoring for the AWAR and AMQ road done yesterday.

Vault: No caribou were observed on the road or close. We gave the authorization to go back to normal operation.

AMQ Rd: A few group (50 or less) were observed between km 12 to km 25. Two larger herds have been observed (~100) at Km 15 and at km 23. Our department and a KIA member make another monitoring of the Amaruk Road this morning . Some convoy was allowed with an escort but the road is closed for the normal operation.

AWAR: Two herds (~100) were noticed around the Exploration Camp Km 90 and Km 80. The road still closed except for convoy escort from Environment Department. We continue to monitoring in collaboration with KIA and HTO member.

An update will be done tomorrow

Ig you have any question, do not hesitate to contact us.

Regards,

Martin Archambault
Environmental Senior Coordinator

martin.archambault@agnicoeagle.com

T: 819.759.3555 x6744

APPENDIX C

2017 Wildlife Mortality Reports

Wildlife Mortality report

Date: January 14, 2017 **From:** *Jamie Kataluk*

Description:

Environment was informed of an arctic hare lying on the ground on the Amaruq road at Km 17.5 by the road supervisor. Environment personnel went to Km 17.5 and observed a dead rabbit on the road which appeared to have been hit by a vehicle. During observation, blood was observed on the road and may have been dragged for about 5 to 10 meters. The carcass was missing a large amount of fur which some were spread on the road when it was dragged. Observing the blood trail appears that the vehicle was going north end of the road sometime after lunch break. I spoke to the road supervisor when it was reported to him he said it was around 12:30 and 13:00.

Actions and Recommendations:

Get the road supervisor to meet with their employees and inform them of the road rules and need to enforce. *completed*

Inform all employees that wildlife have a right of way at all times – stop vehicle and wait for wildlife to cross the road. *completed*

Report all incidents with wildlife immediately to Environment

Photos of the carcass were taken; carcass was placed in a plastic bag and was disposed of at the incinerator because overall state of the carcass.

Km 17.5 on the Amaruq road

Blood splatter on the road

I trust that the above details and report will be satisfactory. Please contact the undersigned should you have any questions.

Jamie Kataluk
Sr. Environmental Technician
jamie.kataluk@agnicoeagle.com
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Wildlife mortality Report

Date: 2017-01-05 ***From:*** *Jamie Kataluk*

Description:

On the 5th of January 2017 at about 11:35 Environment was informed of a fox that was looking sick. Environment went to the area to investigate. Once arriving on the scene the fox was observed lying on the ground and looked to be gasping for air. The hind legs appeared to be stained with blood as well. Environment personnel went back to the office to get a camera and informed his supervisor of the conditions of the fox. As instructed by supervisor the personnel informed the Conservation officer in Baker Lake of the fox and conditions of it. Conservation officer said to dispatch the fox and bring the carcass to Baker Lake. Environment personnel returned to the scene and observed the fox was already dead and a raven was picking on its carcass.

Action and Recommendations:

Photos of the carcass were taken than the carcass was placed in a plastic bag to be brought to Baker Lake on the 6th of January. Once photos were taken, personnel checked the carcass for broken bones but none were observed.

I trust that the above details and report will be satisfactory. Please contact the undersigned should you have any questions.

Jamie Kataluk
Sr. Environmental Technician

jamie.kataluk@agnicoeagle.com

T: 819.759.3555 x6759

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Wildlife mortality Report

Date: 2017-01-07 ***From:*** *Jamie Kataluk*

Description:

On the 7th of January 2017 an employee working at the Warehouse was removing empty totes into a sea can for storage and noticed a dead fox in between 2 empty totes. Employee went to the Environment office to inform them. Environment personnel went to the area where the carcass was discovered. Carcass was frozen when observed and the fur looks twirled together as if it was sick or had a fight with another fox.

Actions and recommendations:

Carcass was placed in a plastic bag once was completed and placed in a sea can by the Environment office to wait for further instruction from supervisor. Photos were taken.

Informed employee who reported the carcass not to touch anything when discovering carcasses as the employee's health can be compromised, report any carcasses discovered to Environment immediately.

Carcass of the fox was inspected for broken bones but could not be determined as the carcass is frozen

I trust that the above details and report will be satisfactory. Please contact the undersigned should you have any questions.

Jamie Kataluk
Sr. Environmental Technician

jamie.kataluk@agnicoeagle.com

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MEMO

Date: **2017-01-25**

To: **Jenny Mariq, Baker Lake HTO Manager**

Subject: **Wolverine incident at Meadowbank site**

On January 12th at 14H15, the Environment Department was notified of an injured wolverine along the northern side of the Vault Pit ring road. Based on the *Agnico Eagle Wildlife Protection and Response Plan*, which is applied through procedure MBK-ENV-0007 – Problem Wildlife, the area was monitored by the Environmental crew. The GN conservation officer was contacted as per procedure and further details were provided to the officer, including photos, to request a suggested course of action and next steps. The GN conversation officer suggested an update the morning of January 13th and instructed the Environmental Department to ensure that personnel working in the area were aware of the situation. The Environmental Department notified the Mine Supervisors about the situation at 18H00 on January 12th.

On the morning of January 13th, the Environmental Superintendent was advised that an incident involving the wolverine had occurred on the night shift of January 12th. After initial investigation, it was assessed that the wolverine was fatally injured when an employee ran over the animal with a pickup truck during his shift.

On the morning of January 13th the remains of the wolverine was retrieved and brought to the Environmental Department to be delivered to the GN conservation office. This is compliant with the *Agnico Eagle Wildlife Protection and Response Plan.* The GN conversation officer and Baker Lake HTO were advised of the incident in the afternoon of January 13th. The KIA were also informed of the incident in the evening of January 13th.

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An internal investigation is still underway. Immediate actions related to this incident are as follows:

- Removing the employee involved in the incident from operations and site until conclusion of the investigation;
- Complete a full administrative investigation, following the internal investigation procedure;
- Concerned Department Supervisors met with the Environmental Senior Coordinator to review the site procedure MBK-ENV-0007 – Problem Wildlife;
- An instruction to all department heads to review the wildlife procedure with their respective crews

Upon completion of the investigation, a written account of the results will be provided to the GN conservation officer.

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Environmental Senior Coordinator
robin.allard@agnicoeagle.com
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Wildlife Incident Report

Date: 2017-03-30 ***From: Martin Theriault***

Event Description:

Since February 2nd, wolves were observed around the Meadowbank site. The Environmental Team monitored the situation. On February 6th, an e-mail was sent to the Baker Lake conservation officer as sightings were still occurring. The Environmental Team continued monitoring and deterred the animals with flares and bangers. On February 13th, the officer suggested more aggressive deterring with snowmobiles and using rubber bullets to make the animals feel unwelcome in the area. Successful deterring occurred several times but the wolves kept coming back to site. Several observations were reported by the Meadowbank staff; the animals started to be observed more frequently near the camp area. On February 25th, one animal was observed near the camp main entrance. Deterring was still being done by the environmental team but the sightings of the wolves were still occurring on a daily basis, closer to areas where people are working. Beginning of March, notices were sent on a weekly basis to the Meadowbank employees regarding the presence of wildlife, waste management procedures and asking all sea cans and doorways to be closed. Information pamphlets were also sent to everyone. An example of internal notice to employees is attached to this report. Communication - emails and phone calls, between the Meadowbank Environment Department and the GN Wildlife Officer about the situation was regular from February through March.

Recommendations and Action Taken:

On March 28th at 5:00 am, a worker was shoveling snow from a sea can when another employee saw two wolves few feet away from his colleague. The employee yelled at the animals, giving enough time to his colleague to get away. This event was reported by email to the Environment department by the employee's supervisor. Following this report, the Environment Department and the Baker Lake conservation officer discussed about the situation that occurred. The GN officer recommended and authorized the dispatch of the two wolves that have been seen for a while inside the mine site. The officer also indicated procedure to manage the carcass of the animals. Written communication is attached to this report. The Mine manager and the Environmental Superintendent were informed of the recommendation.

Meeting to review the procedure and to ensure safety of the workers was held before to proceed. At 2:10 pm on March 28th, one wolf was reported near Stormwater Management Pond. The Environment Coordinator in charge and the Security officer monitored the area and observed one wolf crossing the West Road heading towards Portage pit. As it was deemed safe by both persons, it was dispatched. Carcass was properly handled and secured. Less than an hour later, the second wolf was observed at the primary crusher. The security officer and the Environment Coordinator monitored the area and observed the wolf but considered conditions unsafe to dispatch the wolf from the location. They decided to deter the wolf away towards Third Portage Lake. The wolf went on the Lake aiming to the fresh water barge where it got dispatched. Upon arrival, the wolf stood up and ran away north. A fatal shot was given on the lake. Snowmobiles were used to retrieve the carcass Carcass was properly handled and secured. Both wolves were euthanized using a .223 riffle. See Photos below taken during the operation.

Carcasses will be skinned and brought to the GN officer on the 31st, as requested.

We trust that this report describes the event appropriately. If you have any question, please communicate with the undersigned.

Martin Theriault, Sr. Environment Technician
martin.theriault@agnicoeagle.com

T: 819.759.3555 x6744

Erika Voyer, General Supervisor Environment
erika.voyer@agnicoeagle.com

T: 819.759.3555 x 6980

Photo 1: Location of the first wolf dispatched

Photo 2: Location were the second wolf was observed (Primary crusher area)

Photo 3: Second wolf dispatch on Third Portage Lake

Latest communications with Baker Lake wildlife officer:

From: Toolooktook, Russell [mailto:rtoolooktook@GOV.NU.CA]
Sent: 28 mars 2017 09:31
To: Erika Voyer; Martin Theriault; Robin Allard; Jamie Kataluk
Cc: Meadowbank Environment
Subject: RE: mine visit - postponed

Good morning Martin,

Thanks for your phone message this morning regarding the two wolves that were spotted early this morning close to a worker by the seacans(and previously in all areas around the mine site all winter long); as you had mentioned the wolves seem to be getting more brave and coming very close with each encounter they see with workers, and the outside workers feeling unsafe.

I therefore recommend and authorize the dispatch of the two wolves that have been seen all winter long inside the mine site. Once dispatch, please skin the wolves out and deliver the hides to the wildlife office in Baker Lake. The wolf carcasses can be incinerated at the mine.

Also please take some photos and submit a report after dispatching the wolves.

Thank you,

Russell

From: Toolooktook, Russell
Sent: March 27, 2017 8:40 AM
To: 'Erika Voyer'
Cc: Meadowbank Environment
Subject: RE: mine visit - postponed

Good morning Erika,

I apologize for not getting back to your department; I've been working on my work skidoo as I need to take a field trip before April. I'm planning on going tomorrow for one night. I plan to be back by Wednesday and will get back then.

Please continue to deter the wolves aggressively.

Russell

From: Erika Voyer []
Sent: March 25, 2017 5:44 PM
To: Toolooktook, Russell
Cc: Meadowbank Environment
Subject: RE: mine visit - postponed

Hi Russell,

Just following on your next visit to Meadowbank – do you have any update on when this would be possible for you?

The wolves are still observed almost daily on site, sometimes in the camp area. Environment staff continue to monitor and conduct deterring on further distances as you recommended.

If it is possible for you, please call me Monday morning to discuss the situation, and if you have any additional suggestions that we should consider to ensure the protection of the wolves and mine staff safety.

Thanks again,

Erika Voyer
T: 819.759.3555 ext.6980
C: 819.856.1956

From: Toolooktook, Russell [mailto:rtoolooktook@GOV.NU.CA]
Sent: March-23-17 1:12 PM
To: Robin Allard
Cc: Meadowbank Environment; Erika Voyer
Subject: RE: mine visit - postponed

Good day Robin,

I wasn't in this morning; Sorry, had some things I had to deal with here as usual.

I will confirm later today or in the morning.

Russell

From: Robin Allard [mailto:robin.allard@agnicoeagle.com]
Sent: March 23, 2017 11:01 AM
To: Toolooktook, Russell
Cc: Meadowbank Environment; Erika Voyer
Subject: RE: mine visit - postponed

Good day Russell,

Quick update. Still being seen around camp, in the morning and at the end of the day.

Hopefully you can come to site soon. Do you have an update on this?

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

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From: Robin Allard
Sent: Monday, March 20, 2017 8:57 AM
To: 'Toolooktook, Russell'
Subject: RE: mine visit - postponed

Hi Russell,

Bad weather again! Hopefully you can find time to come sometime this week.

We have seen the wolf for the last 5 days, usually in the mornings before 9h00 and later in the day, end of the afternoon.

With some variations, but usually around those times.

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

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From: Robin Allard
Sent: Tuesday, March 14, 2017 8:32 PM
To: 'Toolooktook, Russell'
Subject: RE: mine visit - postponed

No problem.
As an update, we haven't seen the wolf since we talked.

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

T: 819.759.3555 x6744

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From: Toolooktook, Russell [mailto:rtoolooktook@GOV.NU.CA]
Sent: Tuesday, March 14, 2017 12:48 PM
To: Robin Allard
Subject: mine visit - postponed

Hi Robin,

I'm just informing you that my visit to the mine is postponed to later this week; I will confirm in the next day or so.

Later,

ᕿᓂ ᑐᓴᕐᑐᓴ
Russell Toolooktook

ᐅᓪᓗᒥᓂᕐ III
Conservation Officer III
Anguhiliqiyi III
Agente de conservation III

ᐊᒃᑎᑦᓂᖅᓴᖅᑯᑦ
Department of Environment
Avatiliqiyikkut
Ministère de l'Environnement

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C. P. 9 Baker Lake
(Nunavut) X0C 0A0

867-793-2944 867-793-1692 867-793-2514 rtoolooktook@gov.nu.ca

Internal e-mails regarding wildlife:

Good day all,

Wildlife has been reported more frequently on site lately.

Naturally, these animals will not attack humans, and will be more afraid of us than we are of them. If precaution is taken, there is no need to be afraid of these animals.

Reducing attractants will help greatly in controlling and managing wildlife presence on site, therefore, **please be sure to properly dispose of all food in the appropriate waste containers to ensure there are no food attractants for wildlife**.

Waste Management requires the commitment and participation of all site personnel.

We also ask everyone on site to be sure to *keep* ***all sea cans, and doorways closed*** to avoid allowing access. When leaving a doorway and travelling outside, ensure to have a look around and proceed with caution to avoid walking up to an animal and startling it.

The Environmental Department is monitoring the situation closely and is in constant communication with the Baker Lake Conservation officer.

If wildlife is seen please **DO NOT APPROACH OR CHASE IT!!!**

Call the Environment Department on channel 9 or at extension **6747, 6759** or **6744** or contact Meadowbank Mine Dispatch on channel 11 or extension **6949**.

Supervisor, please share with your respective crews.

If you have any questions or would like a member of the Environment team to attend your tool box meetings to discuss this further, please don't hesitate to contact the Environmental department.

Thank you for your cooperation,

Robin Allard
Environmental Senior Coordinator

robin.allard@agnicoeagle.com

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Wildlife Mortality report

Date: October 15th,, 2017 **From:** *Fanny Laporte*

Description:

While traveling to Baker Lake for a spill containment operation, at 7:45am I noticed a white spot on the AWAR around KM 84. When getting closer, I saw that it was an arctic hare. I put some gloves and remove the animal from the middle of the road; there was no blood, just a little bit of fur beside the carcasses. I took a picture of the animal when I was out of the way because it was on a blind spot and heavy traffic was not far from the area.

Actions and Recommendations:

All employee and contractor should report all incidents with wildlife immediately to AWAR dispatch who will then report to Environment

Inform all employees that wildlife have a right of way at all times – stop vehicle and wait for wildlife to cross the road

Photos of the carcass were taken, carcass was placed in a plastic bag and awaiting for further instruction to dispose of the carcass.

I trust that the above details and report will be satisfactory. Please contact the undersigned should you have any questions.

Fanny Laporte

Environmental Technician

fanny.laporte@agnicoeagle.com

T: 819.759.3555 x6747

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Wildlife Mortality report

Date: November 14th, 2017 **From:** *Fanny Laporte*

Description:

While traveling to Baker Lake for a wildlife survey with Victor Utatnaaq, we saw what was left of a dead arctic hare at KM 32. I picked up the carcass and brought it back to Meadowbank to the incinerator.

Actions and Recommendations:

All employee and contractor should report all incidents with wildlife immediately to AWAR dispatch who will then report to Environment

I trust that the above details and report will be satisfactory. Please contact the undersigned should you have any questions.

Fanny Laporte

Environmental Technician

fanny.laporte@agnicoeagle.com

T: 819.759.3555 x6747

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Wildlife Incident Report

Date*:** 2017-12-02 ***From: *Martin Theriault*

Description:

On the 1st of December 2017 at about 20:00, the environment department was informed of an injured wolf on the Amaruq road between km 6 and 7. Environment asked the AEM pit supervisor that reported the situation to monitor the situation and stop all traffic in the area until further notice. The environment coordinator called the Baker Lake Conservation Officer to make them aware of the situation and then went to the area to investigate with an environment technician. Once arriving on the scene, the wolf was laying on the ground on the side of the road (Picture 1). The pit supervisor explained that the injured wolf was first seen at km 8 and walked his way to km 6.5. According to him, there was no apparent injury to the legs or other parts of the body except the forehead of the animal (See below the supervisor statement). Environment personnel went to km 8 to see any evidence of incident but couldn't find anything except wolf and caribou tracks (Picture 2). The environment personnel decided to leave the wolf for the night and re-evaluate the situation in the morning. They asked the road supervisor to deny access to the road for all vehicles except the grader.

Early next morning, the environment personnel was notified by the road supervisor that the wolf was dead. They went on the scene and saw the dead wolf about five meters away from where it was seen the night before (Picture 3). The carcass was picked up and brought back to site. Upon daylight, environmental technicians went back to investigate the area. No sight of incident was found on the road. A lot of caribou tracks and grazing were found in the area of km 8 (Picture 4) as well as wolf tracks (Picture 5) but no blood or hair was seen. Inspection was also done at km 6.5. It appears that the wolf was killed and dragged by a wolverine to a turn out point as many tracks were observed as well as blood and hair in these tracks (Picture 6, 7 and 8).

Picture 1: Wolf laying down on the side of the road

Picture 2: Wolf and caribou tracks at km 8

Picture 3: Dead wolf about 5 meters away from the night before

Picture 4: Caribou tracks and grazing around km 8

Picture 5: Wolf tracks around km 8

Picture 6: Evidence of the wolf being dragged by a wolverine

Picture 7: Blood mark in wolverine tracks

Picture 8: Blood mark in wolverine tracks

Pit supervisor statement

At 8pm the grader operator spotted a wolf walking on amaraq road at km 08. He stopped moving the grader and turned off all his lights to let the wolf walk by. But the wolf went under the machine, so the operator called me to go out to see him because he wasn't sure if the wolf was still there. We notified environment department. By the time I drove out to the area the wolf had already walked out to km07. I parked in front of the wolf and waited for environment to make it to the area. While I was waiting I noticed the wolf was bleeding from the top of his head and he also tried to stand up twice in 2hours but just layed back down. Environment personnel arrived on scene and relived me. I went back out to amaraq road at 4am to see if the wolf was still there, but when I arrived there the wolf was dragged off the road to a turn out spot and his head if gone. So he is dead.

If you need any more information, let me know

Jason Laforce
Auxiliary Equip. Operator/Relief Pit Services Supervisor

jason.laforce@agnicoeagle.com

T: 819.759.3555 x6891

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Action and Recommendations:

Action to be taken with the carcass will be taken as per the Conservation officer's request.

I trust that the above details and report will be satisfactory. Please contact the undersigned should you have any questions.

Martin Theriault
Environmental Technician

martin.theriault@agnicoeagle.com

T: 819.759.3555 x6906

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Wildlife Mortality report

Date: December 12th, 2017 **From:** *Fanny Laporte*

Description:

While doing a routine inspection at the maintenance area, I saw an arctic fox walking and carrying another arctic fox head. I waited a bit and the fox came back to his prey, the carcasses was under a piece of equipment that had been parked since a long period. There were a lot of fox tracks around the area.

I approached the predator and he was protecting his prey, I did not go closer and I did not recover the carcasses for safety matter.

Actions and Recommendations:

I will meet the maintenance, warehouse and housekeeping crews about the importance of good segregation of food waste to avoid attracting wildlife around the camp and the mine site.

If you have additional question or concern, so not hesitate to contact me,

Thank you

Fanny Laporte

Environmental Technician

fanny.laporte@agnicoeagle.com

T: 819.759.3555 x6747

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Wildlife Mortality report

Date: December 17th, 2017 **From:** *Fanny Laporte*

Description:

While driving back from Amaruq site on December 17th at 8am, Sana Health and safety inspector informed me that there was a dead arctic hare on the road at KM 19. Once there, I took a picture and had the intention to pick up the carcasses. It was frozen to the ground so I pulled and it split in two, I recovered what I was able to. I brought the carcasses back to Meadowbank. It is in the freezer; please let us know if we can dispose of it in the incinerator.

Actions and Recommendations:

Remind all employee of the importance of reporting road kill if it happens. Sana supervisor will remind his crew.

If you have additional question or concern, so not hesitate to contact me,

Thank you

Fanny Laporte

Environmental Technician

fanny.laporte@agnicoeagle.com

T: 819.759.3555 x6747

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Wildlife Incident Report

Date: 2017-12-23 ***From: Tom Thomson, Senior Environment Technician***

Incident Description:

On December 23rd at 7:30am, the Environmental department was informed by a worker that 2 wolves were eating a Caribou carcass along the fresh water barge road. The workers stayed close to the scene until Environment arrived at the incident site. The 2 wolves left the carcass and moved SW towards Third Portage Lake and away from camp shortly after Environment arrived on the scene.

Paw prints and scattered bits of bone and hair were observed around the area where the caribou had been killed. Once the wolves left the carcass, 4 foxes began picking at the carcass.

Action and Recommendations:

The carcass was approximately 750m from camp on the side of an access road which is used frequently. To avoid safety issues for wildlife and workers, the decision to remove and incinerate the carcass to prevent other predators and scavengers being attracted to the area was taken.

We trust that the above details described appropriately the wildlife incident that occurred at the Meadowbank site on December 23, 2017 and the remediation activities that followed. Please contact the undersigned should you have any questions.

Tom Thomson
Senior Environmental Technician

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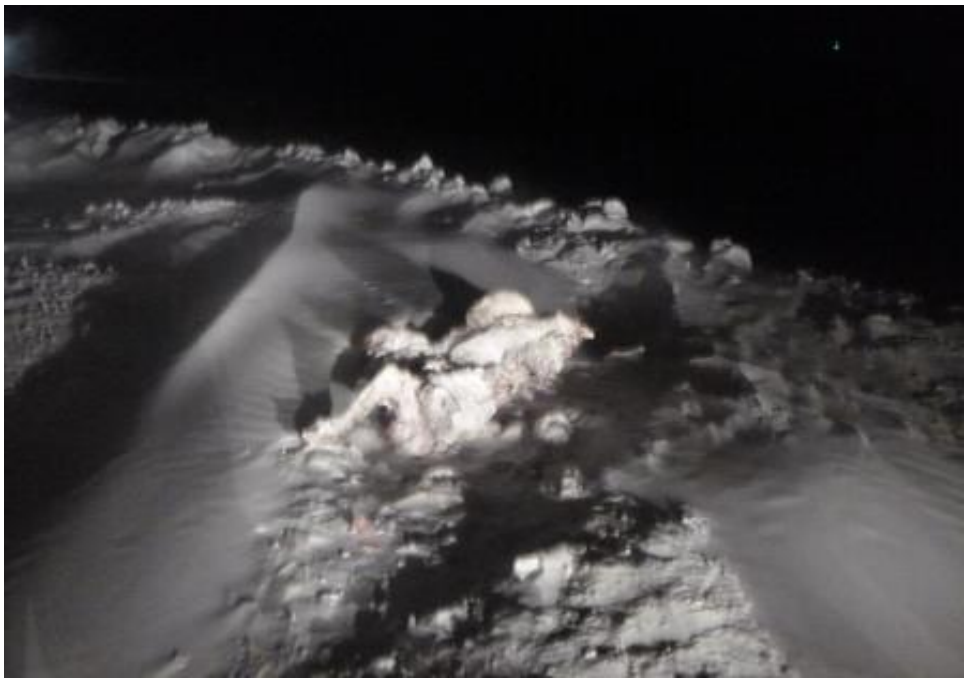

Photo 1: Carcass upon arriving on scene

Photo 2: Scattered bit of hair with blood

Photo 3: Scattered pieces of bone and hair

Photo 4: Tracks and hair near the scene

APPENDIX D

2017 Road Survey Forms

Jamie. K

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Jan 03, 2017 **Time Started:** (8:00) 13:10 **Time Ended:** 15:30

Temperature: -23°C **Wind Speed:** 24 km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☑ 500m ☑ 1 km **Precipitation:**

Field Team: V. Utatnaq, R. Schwandt

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:33	M.O.	4	HT	Rest	—	E	300m	92	14W	0631080	7210993

No wildlife observed

Vault

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017-01-03 **Time Started:** 10:30am **Time Ended:** 11:10am

Temperature: -22° windchill -38 **Wind Speed:** 30km to 50km **Wind Direction:** NW

Visibility (check): ☐ 100m ☒ 500m ☐ 1 km **Precipitation:** light Snow

Field Team: Randy.S / Tom.T

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing

No wildlife observed

AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Jan. 06/17 **Time Started:** 12:45 **Time Ended:** 13:15

Temperature: 29°C **Wind Speed:** **Wind Direction:**

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Utatnaq, J. Katcluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
			NO WILDLIFE SIGHTED								

AGNICO EAGLE AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Jan. 06/17 **Time Started:** 13:15 **Time Ended:** 16:30

Temperature: -29°C **Wind Speed:** 21 km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team: V. Utatnaq, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:42	M.o	20	Hillside	Rest	—	E	450	91	14W	631034	7211824
13:55	M.o	31	"	"	—	W	500m	89	14W	631105	7208273
14:58	Rata	8	H/T	rt.	—	E	300m	51	14W	625416	7175874

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Jan. 17, 2017 **Time Started:** (8:a) 12:00 **Time Ended:** 14:45

Temperature: -17° C **Wind Speed:** 40 km/h **Wind Direction:** E

Visibility (check): ☑ 100m ☑ 500m ☐ 1 km **Precipitation:** Blowing snow, drifts

Field Team: V. Utatnay R. Schwandt

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
12:42	M.o	16	Hill Top	St, Fo	—	E	300m	92	14W	630943	7209423

Vault included

AGNICO EAGLE AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Jan 24, 2017 **Time Started:** 68:00 **Time Ended:** 15:15

Temperature: ~~-5~~ -22°C **Wind Speed:** 13 km/h **Wind Direction:** E

Visibility (check): ☐ 100m ☑ 500m ☑ 1 km **Precipitation:** Blowing snow

Field Team: V. Utatnay, T. Thomson

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
12:49	M.o	20	NF	St. Fo	—	E	450m	92	14W	630983	7209229

1/1

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017-01-25 **Time Started:** 15:00 **Time Ended:** [redacted] 15:50

Temperature: -20°c **Wind Speed:** 11 km/hr **Wind Direction:** WSW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team: Tom T, Randy S

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
15:45	Wolverine	1	Tundra	Walking	E	E	50		14W	0639266	7216261

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Jan. 27/17 **Time Started:** 12:45 **Time Ended:** 15:30

Temperature: -23°C **Wind Speed:** 11 Km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☑ 500m ☑ 1 km **Precipitation:** 0%

Field Team: V. Utatnack, P. Ahern

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
			NO	WILDLIFE SIGHTED							

AGNICO EAGLE VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Jan. 27/17 **Time Started:** 12:45 **Time Ended:** 13:10

Temperature: -23°C **Wind Speed:** 11 km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** 0%

Field Team: V. Utting, P. Ahern

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
			NO WILD LIFE SIGHTED								

AGNICO EAGLE

AWRR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Feb. 07, 2017 **Time Started:** 13:25 **Time Ended:** 16:30

Temperature: -27°C **Wind Speed:** 22km/h **Wind Direction:** WNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Utatnaq, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
11:01	M.O.	15	HT	Rest	—	E	300m	92	14W	631270	7207645

AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Feb. 17/17 **Time Started:** 13:00 **Time Ended:** 13:25

Temperature: -27°C **Wind Speed:** 22 km/h **Wind Direction:** WNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Stotnar, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:03	Rata	5	HT	Rest	—	E	1 km		15V	358890	7217515

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Feb. 14, 2017 **Time Started:** 13:15 **Time Ended:** 16:30

Temperature: -34 **Wind Speed:** 23 km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Ø %

Field Team: V. Utatnaq, J. Ketaluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:40	ARWO	1	Tail Pond 2	walk	N	~	300m		14W	637274	7216145
13:40	Raven	15	"	Feed	—	—	100m		"	"	"
14:04	MO	22	"	Rest	—	E	100m	90	"	631012	7209083

AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Feb 14/17 **Time Started:** 12:45 **Time Ended:** 13:15

Temperature: -34°C **Wind Speed:** 23 km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☐ 500m ☐ 1 km **Precipitation:** 0 %

Field Team: V. Utatnaq, J. Katalak

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
			NO WILDLIFE	SIGHTED							

1/1

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Feb 20, 2017 **Time Started:** 6:10 **Time Ended:** 11:00 am

Temperature: -21°c **Wind Speed:** 10 km/hr **Wind Direction:** NE

Visibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:** Clear

Field Team: Tom T, Jamie K, Greg Tapatai (HTO) Jamie Seeteenak (HTO)

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:00	Muskox	20+	Tundra	Grazing/Resting	—	E	1km+	46			
10:30	ARC HARE	1	AWAR	Resting	NW	W	0m	71			
10:45	Muskox	3	Tundra	Grazing/Resting	—	E	300m	93			

* No observation along Vault Rd.

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Feb. 24, 2017 **Time Started:** 12:00 **Time Ended:** 16:30

Temperature: -23°C **Wind Speed:** 20km/h **Wind Direction:** W

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** 30% chance flurries

Field Team: V. Attanazzi, R. Schwandt, J. Katalik

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:??	M.O.	4	Hillside	Rest	–	W	400m	91	14W	131036	7208939

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Feb 04, 2017 **Time Started:** 8:45 **Time Ended:** 9:30

Temperature: -25 °C **Wind Speed:** 2km/hr **Wind Direction:** SW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: Tom T, Randy S, Martin T

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing

AGNICO EAGLE AWPR / Vault

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Feb. 28, 2017 **Time Started:** 12:45 **Time Ended:** 15:45

Temperature: -37°C **Wind Speed:** 7 km/h **Wind Direction:** E

Visibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:** —

Field Team: V. Utatnaq, R. Schwandt

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:31	n.o.	4	Hillside	st. Forest	—	W	400m	91	14W	631057	7208845
11:55	Wolf	2	Tundra	walking	East	East	500m				

vault

AWPR / Vault

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: March 03/17 **Time Started:** 12:30 **Time Ended:** 15:15

Temperature: -39°C **Wind Speed:** 3km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team: V. Utetnoe, M. Therien, R. Schwandt

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
12:35	RaTa	8	Hill top	Std. Fd	—	E	1 km	106	14W	Meadowbank	
13:02	m.o	5	Hillside	Rest	—	W	500m	91	14W	631067	7220880
	caribou	4		grazing	South	East	1km	6	Vault road		

AGNICO EAGLE

AWRP

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: March 07/17 **Time Started:** 13:15 **Time Ended:** 16:15

Temperature: -33°C **Wind Speed:** 13 km/h **Wind Direction:** NNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Utatnaq, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:24	Rata	5	Hill Top	Fd, St	—	W	1 km	104	14W	637269	7215331
13:50	M.O.	4	—	St. Fd	—	W	300m	90	14W	631106	7208244
14:36	Arctic	2	HT	Sit	—	W	50m	65	14W	626332	7188270

Vault

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: March 07/17 **Time Started:** 12:30 **Time Ended:** 13:15

Temperature: -33°C **Wind Speed:** 13 km/h **Wind Direction:** NNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Ittatuaq, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
12:55	RaTa	10	Vault	St, Fo	—	E	600 m		15W	359864	7219502

AWRR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: March 21, 2017 **Time Started:** 12:30 **Time Ended:** 15:15

Temperature: -30°C **Wind Speed:** 30 gust 39 **Wind Direction:** WNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team: V. Utatnaaq, T. Thomson

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
12:40	RaTa	4	Hill Top	St. Fd	—	W	900m	106	14W	638008	7214170
12:09	M.O.	4	"	Rest	—	W	530m	89	14W	631333	7207351
14:39	ArHa	4	Bridge #3	sit	—	S	50m		14W	638054	7155853
							Vault				

AWPR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: March 28/17 **Time Started:** 13:15 **Time Ended:**

Temperature: -16°C **Wind Speed:** 5km/h **Wind Direction:** SSW

Visibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:** 30% chance flurries, white out

Field Team: J. Tatham, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
11:11	M.O.	3	Hill	Resting	—	W	400m	90	14W	631145	7208127
14:15	ArHa	1	Bridge	Rest	—	W	50m	79	14W	627258	7201437
15:41	RaTa	1	Lake	standing	—	E	650m	17	14W	640255	7151834

AWPR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: March 31/17 **Time Started:** 13:13 **Time Ended:** 16:30

Temperature: -26°C **Wind Speed:** 3 km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Utatnaq, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
11:24	RaTa	4	hilltop	St. Fo	—	SW	650m	104	14W	637386	7214656
13:55	M.O.	4	Small hill	Rest	—	W	400m	88	14W	631317	7206965

VAULT

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: March 30/17 **Time Started:** 12:30 pm **Time Ended:** 13:13

Temperature: -26°C **Wind Speed:** 3 km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:**

Field Team: V. Utotnaq, J. Katalut.

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
			NO	WILDLIFE SIGHTED							

AGNICO EAGLE VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017/04/04 **Time Started:** 9H00 **Time Ended:** 9H20

Temperature: -16°C **Wind Speed:** **Wind Direction:**

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** NONE

Field Team: Martin T. Fanny L. Jamie K.

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: April 04, 2017 **Time Started:** 12:30 **Time Ended:** 15:25

Temperature: -12° c **Wind Speed:** 13 km/h **Wind Direction:** ESE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team: V. Utotnay, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
12:46	RaTa	5	Hilltop	Fo, St	—	W	700 m		14W	637510	7214600
13:14	M.O.	4	"	Fo St.	—	W	900 m		14W	630395	7206268

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017/04/07 **Time Started:** 11H00 **Time Ended:** 11H15

Temperature: -10 °C **Wind Speed:** 15K/H **Wind Direction:** East /N-E

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** SNOW

Field Team: Fanny Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: April 14, 2017 **Time Started:** **Time Ended:**

Temperature: -22° C **Wind Speed:** 40 km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Ice fog in a.m. clearing

Field Team: V. Utatnaq, R. Schwandt

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:05	M.O.	4	Hill side	Rest	—	W	500 m	86	14W	629895	7205814
13:40	Raven	2	AWAR	Fly	N	—	—	60	14W	625435	7183836
14:31	Arctic	2	Bridge 2	Hop	—	—	0	23	14W	638072	7155824
14:47	Raven	3	Bridge 1	Roost	—	—	—			643770	7143361

AWPR + Vault

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: April 18, 2017 **Time Started:** 12:30 **Time Ended:** 15:15

Temperature: -18°C **Wind Speed:** 10 km/hr **Wind Direction:** WSW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team: V. Utatnaq, T. Thomson

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
			NO WILDLIFE SIGHTED								

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: April 21, 2017 **Time Started:** 12:45 **Time Ended:** 15:00

Temperature: -26 **Wind Speed:** 40 km/h **Wind Direction:** NNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Utatnaq, Passenger Bus

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
			NO WILDLIFE SIGHTED								

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: April 25, 2017 **Time Started:** 13:30 **Time Ended:** 16:45

Temperature: -21°C **Wind Speed:** 17 km/h **Wind Direction:** S

Visibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:**

Field Team: V. Utatnaz, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9:37	Arctic	1	Quarry	Sit	—	E	100m	25	14W	637957	7156350
13:59	Raven	3	Lake	walk	S	W	650m	93	14W	631229	7212091
14:08	Raven	2	Rocky Hill	walk	NW	W	900m	88	14W	631343	7202537
14:36	Raven	4	Rocky hill	Fly, sit	—	~	1.5km	73	14W	626793	7195924

AGNICO EAGLE VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: April 25, 2017 **Time Started:** 12:50 **Time Ended:** 13:20

Temperature: -21°C **Wind Speed:** 17 km/h **Wind Direction:** S

Visibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:** —

Field Team: V. Utatnaq, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:00	RaTg	5	Hill Top	St. Fd	—	W	350m		15W	359075	7217925

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: April 27, 2017 **Time Started:** 13:30 **Time Ended:** 16:30

Temperature: -16°C **Wind Speed:** 14 km/h **Wind Direction:** ESE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Utetney, Martin Therien, Erica Voyer

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
15:52	ArHa	3	Bridge st 3	sit	—	W	75m	23	14	638045	7155769
18:16	Caribou	7	tundra	walking	south	W	400m	91			
& return trip											
			Nothing on Vault road				2017/04/27			9h to	9h30

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017/05/02 **Time Started:** 8H15 **Time Ended:** 9H35

Temperature: **Wind Speed:** 23 Km/H **Wind Direction:** N/W

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** NONE

Field Team: Fanny Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 04, 2017 **Time Started:** 12:30 **Time Ended:** 15:30

Temperature: -19°C **Wind Speed:** 23 km/h **Wind Direction:** W/W

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team: V. Utatnaq, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:49	S:k Sik	1	AWAR	sit	—	E	50m	58	14W	625889	7181745
14:40	A. fo	1	Den	rest	—	E	75m	27	14W	636071	7159620

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017/05/04 **Time Started:** 11H00 **Time Ended:** 11H20

Temperature: **Wind Speed:** 3KM/H **Wind Direction:** S-SW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** ☀ SUNNY -17°C

Field Team: Fanny Laporte - Isabelle Couture

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 05, 2017 **Time Started:** 13:00 **Time Ended:** 16:00

Temperature: -22°C **Wind Speed:** 14 km/h **Wind Direction:** N/A/W

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Utatnaq, Mike

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:03	ArHa	2	AWAR	sit	—	E	50 m	22	14W	638714	7155138
14:52	A.F.	1	AWAR	walk across	E-W	E-W	—	4/6	14W	628193	7172523
15:57	Sik-sik	1	"	walk across	W-E	W-E	—	5	14W	644784	7140337

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 09, 2017 **Time Started:** 12:30 **Time Ended:** 15:45

Temperature: -3°C **Wind Speed:** 23 km/h **Wind Direction:** SE

Visibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:** overcast, drifts

Field Team: V. Utatnaq, Mike

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:37	ArHa	1	AWAR	walk, sit	—	E	50m	73	14W	626789	7195585
14:41	ArFo	1	WT	eating?	—	W	150	38	14W	630145	7166864
14:41	Raven	1	WT	Harassing ArFo	—	W	150	38	"	"	"

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 12, 2017 **Time Started:** 13:05 **Time Ended:** 17:00

Temperature: 0°C **Wind Speed:** 13 km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Fog patches

Field Team: V. Kutatnaq,

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:31	Arctic	1	AWAR	Run uphill	NW	W	Ample	49	14W	625435	7174623
14:04	M.O.	7	Hill top	Sit, Stand	—	E	450 m	92	"	632769	7213364
16:00	Arctic	1	Quarry 7	uphill	W	W	75m	38	"	629972	7167703
16:21	Arctic	1	Dem	Sit	—	W	75m	29	"	636067	7159625
16:21	SaCr	1	Rocky HT	rest, fly	variable	W	100m	29	"	"	"
										"	"

AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 12, 2017 **Time Started:** 13:00 **Time Ended:** 13:35

Temperature: 0°C **Wind Speed:** 13 km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☑ 500m ☑ 1 km **Precipitation:** Fog

Field Team: V. Utatnaq

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:21	Raptor Rough Leg	1	AWPR	Fly	NE	W	AWPR	-	15W	359070	7217912

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 16, 2017 **Time Started:** 12:30 **Time Ended:** 15:30

Temperature: -1°C **Wind Speed:** 10 km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Utatuaq, Mike

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:10	Rabbit	1	Quarry 8	Fly	Variable	AWAR	AWAR	44	14W		

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 19, 2017 **Time Started:** 13:30 **Time Ended:** 17:30

Temperature: -4°C **Wind Speed:** 9 km/h **Wind Direction:** SE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: R. Utatnaq J. Katoluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
11:00	WH.O	8	Hill Top	Stand, Fo	E	E	300m	96	14W		
14:06	PeFa	1	Quarry 21	Perch	—	—	175m	93	14W	630886	7211778
14.23	Ptarmigan	1	Quarry 19	St, walk	—	E	200m	85	14W	628733	7204222
14:27	"	37	Tundra	St, walk	—	E	150m	83	14W	627823	7203815
14:56	PeFa	1	Quarry 17	Perch	—	—	60m	70	14W	627273	7193106
15:14	CaGo	2	Tundra	rest, fly	N	W	400m	62	14W	626283	7185823
15:51	SaCr	2	"	stand, walk	—	—	50m	46	14W	626593	7173035
16:02	CaGo	1	"	"	—	W	50m	43	14W	629052	7170136
16:08	PeFa	2	Quarry 7	Perch, Fly	variable	W	60m	38	14W	629969	7167698
16:19	CaGo	50	—	Fly	N	—	—	34	14W	632108	7167247
16:25	ArFo	1	AWAR	Fo	—	W	20m	30	14W	634007	7163096
16:48	PeFa	3	Quarry 3	Perch, Fly	variable	E	75m	23	14W	637986	7156279
16:50	SnGo	12	AWAR	Fly across	N	—	—	23	14W	"	"
16:57	SnGo	150	AWAR	"	"	Fly over	—	21	14W	639612	7157469

AGNICO EAGLE VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 19, 2017 **Time Started:** 12:45 **Time Ended:** 13:30

Temperature: -4°C **Wind Speed:** 9 km/h **Wind Direction:** SE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team: V. Utatnuq, J. Kotaluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:19	M.O.	12	Rocky, H.T.	FO, Stand	—	W	500m		14W	640669	7217389

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 23, 2017 **Time Started:** 13:00 **Time Ended:** 16:00

Temperature: 2°C **Wind Speed:** 18 Km/h **Wind Direction:** SE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team: V. Utatnaq, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:26	PeFa	2	Quarry 21	Perch, Fly	variable	W	150m	99	14W	633996	7216219
15:36	PeFa	2	Quarry 20	"	"	"	150m	93	14W	630902	7211673
15:58	SnGo	2	HT	Rest, walk	—	E	250	82	14W	627324	7200373
14:17	CaGo	27	—	Flyover	N	—	—	70	14W	627341	7194668
14:31	Ptarmigan	2	AWAR	walk	—	—	—	60	14W	625536	7184042
14:36	Sik-sik	2	"	sit, walk	—	—	—	57	14W	625891	7181586
14:46	SeCr	1	Rocky HT	(dw)	—	W	350m	53	14W	625106	7176350
14:58	ACHa	2	Quarry 8	sit	—	—	—	44	14W	628974	7170446
15:14	Ducks	2	—	Flyover	N	—	—	32	14W	633620	7163666
15:19	SaCr	4	Brushy Tundra	Sit	—	W	400m	30	14W	634730	7161436
15:20	Ptarmigan	5	AWAR	" walk	—	—	—	29	"	"	"
15:21	SaCr	4	"	"	"	"	—	29	"	"	"
15:31	ArHa	7	HT, Quarry	sit	—	—	—	23	14W	637941	7156401
15:32	GWFG	2	Quarry	stand, walk	—	E	30m	23	14W	637981	7156264
15:33	CaGo	4	Road	swim	—	E	100m	23	"	638067	7155841

AGNICO EAGLE AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 23, 2017 **Time Started:** 13:00 **Time Ended:** 16:00

Temperature: 2°C **Wind Speed:** 18 km/h **Wind Direction:** SE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team: V. Utatnaq, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
15:40	CaBo	1	Brushy Thdra	stnd	—	W	150m	17	14W	644035	7151049
15:48	SaRa	1	"	"	—	W	50m	11	14W	643216	7145923
15:55	CaGu	1	"	"	—	W	100m	7	14W	644332	7141844

VAULT

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017/05/24 **Time Started:** **Time Ended:**

Temperature: 2°C **Wind Speed:** 27KM/H **Wind Direction:** East

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** RAIN

Field Team: Fanny Laporte / Jason Fortier

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 26, 2017 **Time Started:** 12:30 **Time Ended:** 15:15

Temperature: 2°C **Wind Speed:** 18 km/h **Wind Direction:** ESE

Visibility (check): ☐ 100m ☑ 500m ☑ 1 km **Precipitation:** Fog Patches, overcast

Field Team: V. Utatanq, F. Laporte, J. Fortaine

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
12:24		1	AWAR							~~633583~~	~~7221505~~
12:36	Refa	1	Quarry 22	Perch	—	W	250m	98	14W	633993	7216224
12:43	Goose	61	AWAR	Fly	N	—	—	94	14W	632217	7212559
12:46	Refa	1	Quarry 21	Perch	—	W	100m	93	14W	630888	7211776
13:04	Sacr	1	KM 85	st. fly	S	W	300m	82	14W	626891	7203669
13:21	Refa	1	Quarry 16	Perch	—	W	50m	70	14W	627274	7193116
13:44	SnGo	4	AWAR	Fly over	N	—	—	55	14W	626596	7179946
13:48	ArTe	1	AWAR	Sit	NW	W	50m	53	14W	625165	7178199
14:09	GWFG	2	AWAR	St, walk	—	W	50m	42	14W	629582	7169294
14:13	Geese	20	"	" fly	N	W	100m	38	14W	629966	7167614
14:13	SnCr	2	"	dance	—	W	100m	38	14W	"	"
14:19	Geese	12	"	Fly over	N	—	—	37	14W	630462	7165319
14:38	ArTe	6	Quarry	sit	—	E	50m	23	14W	637952	7156354
14:41	GWFG	2	AWAR	st. fly	NE	W-E	"	"	"	638514	7155416
14:41	SnCr	1	"	st	—	E	100m	"	"	"	"

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: May 26, 2017 **Time Started:** 12:30 **Time Ended:** 15:15

Temperature: 2°C **Wind Speed:** 18 km/h **Wind Direction:** ESE

Visibility (check): ☐ 100m ☑ 500m ☐ 1 km **Precipitation:** fog patches, overcast

Field Team: V. Utatnaq, F. Laporte, J. Fortaine

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
14:54	ArFo	1	AWAR	walk	W	W	75m	13	14W	642673	7147593
15:06	Sacr	2	HT	sit	—	E	75m	6	14W	644763	7140774

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017/05/28 **Time Started:** 8H15 **Time Ended:**

Temperature: 3°C cloudy **Wind Speed:** 8KM/H **Wind Direction:** ~~N/E~~ North

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** 0

Field Team: Fanny Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9H36	Geases	29	1	Flying	N/E	N/E	100M	6	15W	0359444	7219165

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017-05-30 **Time Started:** 13:30 **Time Ended:** 19:45

Temperature: 10 **Wind Speed:** 26 **Wind Direction:** N-NW

Visibility (check): ☐ 100m ☐ 500m x☐ 1 km **Precipitation:** None

Field Team: Fanny Laporte, Mhaly Bois Charlebois

30 MAY 13h38	Geeses	30	toundra							14W	0633725	7214962
13h39	ptarmigan	1	toundra	walking	E	E				"	"	"
13h47	pilgrin falcon	1	quarry	flying	droite	droite	100 M	93		14"	0630886	7211747
13h51	geeses	944	toundra	flying	NW	NW	800M	91		14	0630901	7209919
13h55	geeses	[illegible]4	toundra	flying	NW	NW	800M	88		"	0631121	7208209
13h55	geeses	6	toundra	flying	SE	SE	800M	28		"	"	"
13h58	Crane	1	"	walking	SE	SE	500M	87		"	0631334	7207107
14h04	geeses	~20	"	flying	E	E	800M	86		"	0629735	7205115
14h12	geeses	~20	"	flying	E	E	800M	82		"	0626931	7203520
14h12	geeses	8	"	flying	W	W	200M	82		"	"	"
14h13	geeses	7+10	"	"	E	E	800M	88		"	"	"
14h17	geeses	~12	"	flying	W	W	900M	79		"	0627387	7201858
14h19	"	+7	"	"	E	E	700M	79		"	"	"

14h21	ptarmigan	1+1	toundra	immobile	W	W	30 M	18	14	0626746	7200571
14h26	geeses	~40	toundra	flying	E	E	1.5KM	15	14	0625744	7198389
14h30	geeses	~20	toundra	flying	E	E	700 M	13	14	0626778	7196736
14h33	geeses	9	toundra	flying	W	W	800 M	13	14	0626785	7195490
14h36	geeses	1216	toundra	flying	E	E	600 M		14	0627036	7195979
14h39	geeses	4	toundra	flying	W	W	700 M		14	0627346	7191793
"	"	~1241 +8	"	"	W	W	"		"	"	"
14h42	artic hare	1	toundra	immobile	NW	NW	600 M		"	0626889	7189943
14h45	geeses	~10 +50	toundra	flying	NW	NW	600 M		"	0626503	7189200
"	"	30	"	"	"	"	500 M		"	"	"
14h47	"	~20 +15	"	"	"	"	500 M			0626880	7187224
14h48	wolverine	1	1	running	NW	NW	200 M	6	"	0626750	7186770
14h51	geeses	~10	toundra	flying	N	N	150 M	6	"	0626978	7186044
14h57	geeses	8	toundra	flying	N	N	300 M	6	"	0625598	7184200
15h00	geeses	30	toundra	flying	W	W	300 M			0625871	7181948
15h08	geeses	30	toundra	flying	SW	SW	400 M			0624933	7177227
15h12	geeses	+50 30	toundra	flying	S	S	400 M			0625523	7173880
15h19	geeses	~50	toundra	flying	NE	NE	700 M			0628683	7171445
15h34	geeses	100	toundra	flying	SE	SE	500 M	33		0632376	7163151
15h45	geeses	20	toundra	flying	E	E	700 M	25		0636197	7158351
15h48	crane	1	toundra	immobile	S	S	200 M	25		0636711	7157500
16h00	geeses	2	lake	swimming	NS	NS	400 M	16		0640870	7150545
16h08	ptarmigan	1	road	walking	SO	SO	2 M	10		0641519	7145272
16h11	crane	1	toundra	immobile	E	E	20 M	8		0643958	7144051
16h15	ptarmigan	2	road	walking	S	S	5 M	8		0644049	7142566
16h16	duck	2	toundra	immobile	E	E	10 M	7		0644476	7140854
16h19	crane	1	toundra	walking	O	O	700 M	6		0644764	7140714
16h22	geeses	7	toundra	flying	O	O	600 M	5		0643547	7138632

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: June 02, 2017 **Time Started:** 12:30 **Time Ended:** 15:45

Temperature: 4°C **Wind Speed:** 21 km/h **Wind Direction:** ESE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team: V. Kutatnay, T. Thomson

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:04	TuSw	2	Pond	stand, swim	—	E	200m	26	14W	626415	7157874
12:54	PeFa	1	Quarry 21	perch	—	W	150m	93	14W	630895	7211600
13:32	PeFa	1	Quarry 18	"	—	W	"	70	"	627261	7193235
13:48	Harrison	3	RT	Fly	variable	W	100m	62	"	626233	7185602
13:48	SaGo	2	Lake	sit, rest	—	E	300m	62	"	"	"
14:11	CaBo	6	RT	sit, rest	—	W	50-100m	48	"	625533	7173545
14:19	PeFa	1	Quarry 9	Perch	—	W	100m	43	"	628814	7171530
14:49	PeFa	1	Quarry 3	Perch	—	E	75m	23	"	637969	7156474
15:10	ArHu	1	Quarry 2	sit	—	W	500m	13	"	642174	7147614
15:21	CaGo	1	Bridge	sit	—	W	100m	8	"	643802	7143388
15:24	SaCr	1	RT	walk, stand	—	W	50m	7	"	644110	7142376

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017-06-02 **Time Started: 7:30** **Time Ended: 8:15**

Temperature: 10C **Wind Speed: 16 km/hr** **Wind Direction:** SE

Visibility (check): ☐ **100m** ☐ **500m** ☐ **1 km** **Precipitation:** Clear

Field Team: Tom T, Fanny L, Mike Buttet-Allard

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
7:42	Grizzly Bear	3	Tundra	Walking across Wally Lake	NE	NE	500+	-	-	-	-
8:00	Ptarmigan	4	Tundra	Resting	N	N	10	2	-	-	-
				VAULT WILDLFE SURVEY							

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: June 06, 2017 **Time Started:** 13:00 **Time Ended:** 15:00

Temperature: 2°C **Wind Speed:** 72 km/h **Wind Direction:** E

Visibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:** Rain

Field Team: Vutathaq, Passenger Van

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:54	GWFG	2	Pond	stop, swim	—	W	100m		14	625418	7124621
14:42	SaCr	2	HT	St. walk	—	E	30m	49	14W	644237	7142071

AWA2

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: June 09, 2017 **Time Started:** 13:15 **Time Ended:** 17:30

Temperature: 4°C **Wind Speed:** 24 **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team: V. Ittukutnung, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9:03	NoPi	4	Lake	swim	—	E	100m	1	15W	356177	7136122
9:18	CaGo	2	Creek	stand, swim	—	E	50m	8	14W	643832	7143405
9:56	ArHa	1	AWAR	sit	—	E	50m	44	14W	629187	7169894
14:54	GWFG	1	Quarry 15	stand, fly	N	W	50m	70	14W	626919	7190724
14:59	Geese	7	HT	Rest	—	E	250m	66	14W	626701	7189666
15:09	Hesp	12	Lake	stand, rest	—	W	400m	65	14W	626274	7189145
16:12	PeFa	2	Quarry 07	Perch fly land	—	W	100m	38	14W	629963	7167709
16:13	CaGo	10	"	Rest, sit	—	W	"	"	"	"	"
16:26	ArFo	1	Quarry 05	walk	variable	W	100m	27	"	632072	7163440
16:51	LaFa	2	Quarry 02	Perch, Fly, land	—	E	100m	23	"	637965	7156474
17:08	GWFG	2	AWAR	Stand, walk	—	E	50m	14	"	642364	7148374
17:08	ArHa	1	"	sit, walk	W	W	20m	14	"	"	"

AWA2

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: June 09, 2017 **Time Started:** 13:15 **Time Ended:** 17:30

Temperature: 4°C **Wind Speed:** 24 **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Ittukuluq, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9:03	NoPi	4	Lake	swim	—	E	100m	1	15W	356177	7136122
9:18	CaGo	2	Creek	stand, swim	—	E	50m	8	14W	643832	7143405
9:56	ArHa	1	AWAR	sit	—	E	50m	44	14W	629187	7169894
14:54	GWFG	1	Quarry 15	stand, fly	N	W	50m	70	14W	626919	7190724
14:59	Geese	7	HT	Rest	—	E	250m	66	14W	626701	7189666
15:09	Hesp	12	Lake	stand, rest	—	W	400m	65	14W	626274	7189145
16:12	PeFa	2	Quarry 07	Perch fly land	—	W	100m	38	14W	629963	7167709
16:13	CaGo	10	"	Rest, sit	—	W	"	"	"	"	"
16:26	ArFo	1	Quarry 05	walk	variable	W	100m	27	"	632072	7163440
16:51	PeFa	2	Quarry 02	Perch, Fly, land	—	E	100m	23	"	637965	7156474
17:08	GWFG	2	AWAR	Stand, walk	—	E	50m	14	"	642364	7148374
17:08	ArHa	1	"	sit, walk	W	W	20m	14	"	"	"

AGNICO EAGLE

✓ AM & T

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: June 09, 2017 **Time Started:** 12:30 **Time Ended:** 13:15

Temperature: 4°C **Wind Speed:** 24 km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Watmough, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
			NO WILDLIFE SIGHTED								

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: June 15, 2017 **Time Started:** 09:00 am **Time Ended:** 11:30 a.m

Temperature: 2°C **Wind Speed:** 4 km/h **Wind Direction:** SE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Utatnaq, Passenger Bus

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:05	Arfo	1	Quarry 5	Sit, walk	Variable	W	100 m	34	14W	632672	7163440

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

e: 16/06/2017 **Time Started:** 7h30 **Time Ended:** 11h20

nperature: 10° Sunny **Wind Speed:** 12 Km/h **Wind Direction:** South

ibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** none

ld Team: J-Tim Evviuk / Vannia / Martin

	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
	Arc. Hare	1	tundra	running	East	East	2	102	14W	0635211	7217141
	Arc Fox	1	tundra rocks	sitting	—	East	10	93	14W	0630929	7211562
	Cana. geese	9	tundra	eating	—	west	120	88	14W	0631337	7207169
	Caribou	1	Tundra	walking	—	East	200	77	14W	0626119	7199692
	ground squirel	1	on the road	watching	—	—	—	56	14W	0626073	7180578
	ground squirel	1	on the road	watching	—	—	—	56	14W	0626280	7179550
	ground squirel	1	on the road	watching	—	—	—	43	14W	0628905	7170340
	Falcons	2	tundra	flying	north	East	—	39	14W	0630025	7167850
	ground squirel	1	on the road	watching	—	—	—	26	14W	0636214	7158629
	ground squirel	1	on the road	watching	—	—	—	24	14W	0637715	7156540
	ground squirrel	1	on the road	watching	—	—	—	19	14W	0640047	7152661
	sandhill crane	3	tundra	eating	—	East	20	17	14W	0640598	7150779
	ground squirel	1	on the road	watching	—	—	—	4	14W	0644785	7139960

VAULT

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 16-06-2017 **Time Started:** 8:00 **Time Ended:** 8:30

Temperature: **Wind Speed:** **Wind Direction:**

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team:

me	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	K M	GPS Zone	Easting	Northing
~~8:00~~	~~GYR~~	~~1~~		~~Grazing~~		~~West~~					
8:00	SAND HILL CRANES	9		Grazing		West	30 m				

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017-06-20 **Time Started:** 1:00 pm **Time Ended:**

Temperature: 10C **Wind Speed:** **Wind Direction:** NE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: Pat A., Tim Evviok

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM 87	GPS Zone	Easting	Northing
2	Musk-ox	19		Grazing	⊗	[illegible] SE	300m			W.96°13.19.7	64°57'27.3
5	loons	4		swimming			75m	10		W96°00.01.6	64°21'08.3
				VAULT WILDLFE SURVEY							

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017-06-23 **Time Started:** 12:15 **Time Ended:** 3:30

Temperature: 10C **Wind Speed:** **Wind Direction:** NE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: Timothy O, Patrick A.

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	~~Easting~~ West	Northing
12:55	Musk-ox	18		Protecting the young		East	50m	97		W96°07'55.8	65°03'25.3
3:00	Musk-ox	1		Grazing, lost		East	100m	15		W96°02'25.6	64°25'42.2
				VAULT WILDLFE SURVEY							
				(Nothing Observed)							

CC 86 D [illegible]
69
~~48~~–50

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 06/27/2017 **Time Started:** 12:30 **Time Ended:** 80-84

Temperature: 10C **Wind Speed:** **Wind Direction:**

Visibility (check): ☐ 100m ☐ 500m ☐ 1 km **Precipitation:** Clear

Falcon 33 7HK

Field Team: Timothy Evviuk & Fanny Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
12:49	Muskox	1	tundra	immobile		East	1100 M	101		65 0326.7	96 0803.6
1:18	Muskox	25	tundra	eating		W	2 KM	86		64 5 708.1	96 74 49.8
2:18	Muskox	7	"	"		~~W~~ E	1200 M	55		64 4311.6	962035.5
2H45	Falcon	1	Quarries	immobile		E	200 M	44		64 38485	96 18273
15H05	Can Geeses	8				S	500 M	33		64.34026	961404.0
15H15	Sandhil Cranes	2	tundra	flying		S	100 M	27		64 3212.9	96.0955.3
15H34	Muskox	31	tundra	resting		~~W~~ E	2500 M	18		64 2805.7	96.0517.5

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

e: June 29, 2017 **Time Started:** 12:30 **Time Ended:** 15:30

nperature: 9° C **Wind Speed:** 5 Km/h **Wind Direction:** E

ibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** 0

ld Team: V. Ultatuncq,

	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
	M.O.	13	Rocky Ht.	std, Fo	—	E	300		14W	626629	7180126

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

:e: July 04, 2017 **Time Started:** 12:15 **Time Ended:** 15:30

nperature: 14°C **Wind Speed:** 2 km/h **Wind Direction:** N

ibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

ld Team: V. Utatnaq, M.

	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
6	Pe Fa	1	HT	Fly	—	E	75m	66	14W	626729	7189733
7	Sandhill crane	2		Flying	W	W	1000	82			

1 of 1

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017 10 ~~07~~ 04 **Time Started:** 9:52AM **Time Ended:**

Temperature: 10C 19,8°C **Wind Speed:** ~~SSE~~ 7,7 kph **Wind Direction:** S-E

Visibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:** Clear

Field Team: MICKAEL BA / VANIA MOR

me	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
	Geese	7		Flying	West	North	~1km	/	15W	0366946	7225745
	Artic HARE	1		RUNNING	W	W	ON ROAD	/	14W	0639615	7215741
				VAULT Wildlife Survey							

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

te: July 11, 2017 **Time Started:** 12:00 **Time Ended:** 15:15

nperature: 14°C **Wind Speed:** 12 km/h **Wind Direction:** SW

ibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:** —

ld Team: V. Ittatneq, M. Allerd,

	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
			NO WILDLIFE SIGHTED								

1 of 1

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

te: July 14, 2017 **Time Started:** 12:30 **Time Ended:** 15:45

mperature: 12° C **Wind Speed:** 37-50 km/h **Wind Direction:** NW

sibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

eld Team: V. Lutchman,

	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
6	LoTaDu	1	Lake	swim, fly	E	E	150m	12	14W	641464	7149703

1/1

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

July 18, 2017 **Time Started:** 12:30 **Time Ended:** 15:30

ture: 9°C **Wind Speed:** 46 gust 57 km/h **Wind Direction:** NW

(check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Period of rain / drizzle, light rain

am: V. Ultatnaq, P. Alerk

Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
N.O.	10	Rocky HT	stand, fo	—	E	200 m	91	14W	631003	7209157
oTaJa	1	AWAR	on rd / fly	variable	—	—		14W	625156	7182660
ArFo	1	"	walk	E	AWAR	—	45	14W	628675	7171222
N.O.	1	HT	walk	W	W		12	14W	639452	7153696
aCr	2	H.i.	fly	W	W	100 m		14W	640175	7152218

1 of 1

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

July 21, 2017 **Time Started:** 09:00 **Time Ended:** 15:30

ture: 10°C **Wind Speed:** 21 km/h **Wind Direction:** N/A

(check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

m: V. Ukatnang, Passenger Bus

Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
I.D.	1	Grassy HT	Stand	—	E	350m	13	14W	641859	7149332
I.D.	1	Lake shore	Stand	—	E	200m		14W	625461	7182563
CGO	8	Road	Swim	—	E	75m	54	14W	628691	7204226
I.D.	10	Rocky HT	run, walk	NE	E	500m	49	14W	625441	7174615

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

July 25 2017 **Time Started:** 13:05 **Time Ended:** 15:45

ture: 13° C **Wind Speed:** 23 km/h **Wind Direction:** N

(check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:** Mostly cloudy

am: V. watching,

Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
ik sik	1	AWAR	—	—	—	—	104	14W	636807	7216179
"	2	AWAR	1 juv / 1 dead	—	—	—	103	14W	636437	7216446
efa	1	Quarry 22	Perch	—	W	75m	99	14W	633992	7216215
efa	2	Quarry 21	fly, dive	—	W		93	14W	630866	7211782
efa	1	Quarry	perch	—	W	75m	85	14W	628677	7204220
sikrik	2	AWAR	walk across	—	—	—	55	14W	"	"
Sabr	2	NT	stand, walk	—	—	75m	54	14W	627072	7203906
lesser	1	AWAR	fly	variable	—	—	79	14W	626617	7206714
Pefa	2	Quarry	Perch, fly	"	W	100m	71	14W	627248	7193196
Sik sik	3	AWAR	walk, stand	—	—	—	49	14W	625486	7194262
efa	1	NT	walk	variable	E	75m	48	14W	626135	7193202
Sab	6	AWAR	walk	E	—	—	43	14W	629617	7169243
ik-Sik	4	AWAR		—	—	—	36	14W	634253	7161895

1 of 1

AGNICO EAGLE AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: July 28, 2017 **Time Started:** 13:10 **Time Ended:** 16:30

Temperature: 9°C **Wind Speed:** 4 Km/h **Wind Direction:** NNE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Utatnaq, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:23	Cabo	14	Lake	Swim	—	E	75m	101	14W	634255	7217535
13:26	PeFa	2	Quarry 22	Perch	—	SW	100m	99	14W	633937	7216169
13:38	PeFa	3	Quarry 21	Perch, Fly	—	SW	100m	93	14W	630886	7211786
13:53	M.O.	13	HT	FO, Stand	—	E	850m	85	14W	629369	7204419
14:03	LoTgJa	2	Rocky HT	Perch	—	E	400m	84	14W	626906	7203760
14:29	PeFa	1	Quarry 16	Perch	—	W	75m	77	14W	627208	7193160
14:39	PeFa	2	Quarry 14	Perch, Fly	—	W	200m	69	14W	626270	7189141
14:58	Raptor	1	HT	Perch	—	E	100m	62	14W	626462	7185444
15:52	SnCr	2	Hilltop	Ft. walk	—	W	1000m	29	14W	635426	7161012
16:03	PeFa	1	Quarry 3	Perch	—	E	50m	23	14W	637944	7156377
16:19	Ptarmigan	8	AWAR	walk across	S	W-E	AWAR	19	14W	640074	7152582

AGNICO EAGLE VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: July 28 2017 **Time Started:** 12:30 **Time Ended:** 13:12

Temperature: 9°C **Wind Speed:** 4 km/h **Wind Direction:** NNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:**

Field Team: V. Utstrong, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
			NO	WILDLIFE SIGHTED							

Page 1 of 1

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: August 04, 2017 **Time Started:** 13:30 **Time Ended:** 16:30

Temperature: 10C **Wind Speed:** **Wind Direction:**

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: Kutatnaq, T Thomson, Isabel

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9:45	M.O.	40	HT	Fo, St. walk	E	E	100m	17	14W	639376	7154032
13.55	Ar Fo	1	HT rocky	Ct, walk	Variable	E		98	14W	633737	7149180
14:01	Pe Fa	2	Quarry 21	Fly / Nest	"	W	101m	93	14W	630888	7211786
14:15	Pe Fa	1	Quarry 19	fly	"	W	75m	84	14W	628155	7204212
14:16	SaCr	2	grassy	St walk	—	W	75m	84	14W	628162	7203854
14:23	Harrisn	10	Rocky HT	Ct, walk	—	E	50m	79	14W	627174	7201307
14:54	Ca Go	50+	Lake shore	St. So	~	E	75m	58	14W	625489	7182527
15:13	M.O.	4	Brushy HT	Rest	—	E	250m	44	14W	625442	7174618
15:42	SaCr	3	"	walk, st	—	E	50m	29	14W	634963	7161184
15:54	M.O.	35	"	Fo, rest	NE	E	75m	23	14W	638406	7155501
15:55	SaCr	10	Rocky HT	walk, st	—	E	50	23	14W	"	"
15:58	SaCr	4	HT	St, walk	—	E	75m	21	14W	639467	7153735
16:17	SaCr	2	"	St. walk	—	E	30m	6	14W	644590	7141307

AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: August 04, 2017 **Time Started:** 12:45 **Time Ended:** 13:17

Temperature: 10C **Wind Speed:** **Wind Direction:**

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utatnaq, T. Thomson

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
			No WILDLIFE SIGHTED								

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: August 08, 2017 **Time Started:** 12:30 **Time Ended:** 15:00

Temperature: 10C **Wind Speed:** **Wind Direction:**

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utatnaq, Isaac

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:35	RgTa	1	HT	Fo. Walk	S	W	450m	55	14W	625868	7184502
11:01	CaGo	6	Pond	swim	—	E	60m	84	14W	628598	7204218
12:32	ArFo	1	exp camp	rest	—	E	50m	99	14W	632760	7214998
12:35	ArFo	1	Rocky HT	St. walk	variable	E	50m	97	14W	632908	7213823
13:52	ArFo	1	AWAR	wk across	E-W	E-W	—	45	14W	628786	7171296

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

Vault

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: August 8th, 2017 **Time Started:** **Time Ended:**

Temperature: 10C **Wind Speed:** **Wind Direction:**

Visibility (check): ☐ 100m ☐ 500m ☐ 1 km **Precipitation:** Clear

Field Team:

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:30	Wolf	1	✓	Walking	East	East	200 m		✓	✓	✓

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: August 11, 2017 **Time Started:** 09:00 **Time Ended:** 15:00

Temperature: 10C **Wind Speed:** 8 km/h **Wind Direction:** ESE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: Vittatnaq, Passenger Bus

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9:49	SnCr	5	HT	Fly, land	E	E	75m	3/6	14W	631616	7164075
9:57	M.D.	4	HT	Fly, stand	—	E	150m	4/3	14W	629083	7170854
10:48	CaGo	12	Pond	Swim	—	E	75m		14W	628492	7204195
10:48	RaTa	1	Quarry 19	wk on AWAR	N	W	AWAR		〃	〃	〃
12:43	PeFa	1	Quarry 21	Perch on rock	—	W	75m	5/3	14W	630850	7211757

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: August 15 2017 **Time Started:** 12:30 **Time Ended:** 15:15

Temperature: 10C 13°C **Wind Speed:** 28 km/h **Wind Direction:** NNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** ~~Clear~~ Haze, Fog

Field Team: V. Uttatuaq, Jason Fortier

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9:28	M.O.	1	AWAR	Stnd, walk	SW	W	50m	29	14W	635016	7161131
10:43	PeFa	2	Quarry 21	Perch, fly	variable	W	150m	93	14W	630889	7211725
13:22	PeFa	1	Quarry 18	Fly, hover	"	W	150m	81	14W	627453	7202074
13:34	SaCr	2	Rocky HT	stnd	—	W	201m	71	14W	627287	7192932
13:40	PeFa	1	"	Fly, dive	—	W	"	70	14W	626956	7190265
13:52	LoTaJa	2	AWAR	Pick @ rd kill	variable	E	50m	61	14W	625143	7183193
13:54	Nofi	2	Pond	swim	—	E	150m	60	14W	625186	7182813
14:16	M.O.	32	HT	Stnd Fo	—	E	350m	43	14W	629160	7170691
14:17	ArFO	2	"	walk	variable	W	—	43	14W	"	"
14:35	SaCr	4	HT	Stnd, fly	"	E	50m	30	14W	634701	7161468
14:35	M.O.	3	HT	Stnd Fo	"	E	401m		"	"	"

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: August 25, 2017 **Time Started:** 12:15 **Time Ended:** 15:00

Temperature: ~~10C~~ 11°C **Wind Speed:** 13 km/h **Wind Direction:** SSE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear, Hazy

Field Team: V. Utatnaq, P. Ahern

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9:17	NOPI	3	Lake	swim	—	E	100m	1	15W	356208	7135997
10:45	GWFG	6	Creek	stand, walk	—	E	75m	70	14W	627449	7192353
11:02	EaSp	18	Pond	swim	—	E	100m	85	14W	628511	7204214
11:07	M.D.	6	ridge	stand, fo	—	E	250m	87	14W	630725	7206402
11:13	RaTa	1	AWAR	Close	W-E	E	50m	82	14W	631064	7210882
11:17	RaTa	5	Rock, HT	Walk	variable	W	250m	83	14W	632420	7212849
11:19	RaTa	1	HT	Fo, walk	NE	E	250m	94	14W	633162	7214293
12:22	RaTa	1	HT	Sit	-	W	400m	100	14W	634228	7217795
12:25	RaTa	1	"	walk, run	W	W	300m	98	14W	633884	7215169
12:25	RaTa	2	HT	"	W	W	150m	98	14W	"	"
12:46	PeFa	2	Quarry 21	Alarm call	—	W	100m	95	14W	633884	7215169
12:51	PeFa	1	Quarry 19	Fly, call	—	W	75m	84	14W	628703	7204242
13:12	PeFa	1	Quarry	Fly	—	W	100m	-	14W	627215	7193092
13:54	M.D.	5	HT	Fo. flew.	—	W	500m	41		629678	7169152

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017-08-26 **Time Started:** 8:20 **Time Ended:** 8:45

Temperature: 10C **Wind Speed:** **Wind Direction:** NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team:

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
8:30	Sandhill - crane	6		flying	West	E	30m				

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: August 29, 2017 **Time Started:** 13:30 **Time Ended:** 15:45

Temperature: ~~10C~~ 3°C **Wind Speed:** 21 km/h **Wind Direction:** NNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utatnaq, P Ahera

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:30	R.T.	1	HT	Ao, stand	—	E	75m	93	14W	631291	7212133
13:31	RaFa	1	Quarry	Fly, call	~	—	—	93	"	"	"
13:42	SnGo	5	HT	rest	—	E	200m	93	"	631065	7211072
13:49	SnGo	100	HT	rest	—	E	200m	87	"	630674	7206369
13:52	SnGo	350	HT	rest	—	E+W	200m	85	"	629672	7204681
13:56	SnGo	200	HT	rest	—	E	100+m	73	"	627054	7203903
14:50	AlFo	1	AWAR	Feed on kill	—	—	—	43	"	629149	7170663

AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Aug. 29, 2017 **Time Started:** 13:00 **Time Ended:** 13:30

Temperature: 10C 3°C **Wind Speed:** **Wind Direction:**

Visibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:** Clear

Field Team: V. Hutaruk, P. Allen

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
			NO WILDLIFE SIGHTED								

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AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: September 01, 2017 **Time Started:** 13:15 **Time Ended:** 16:00

Temperature: 10C **Wind Speed:** 18km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** ~~Clear~~ Cloudy

Field Team: V. Hatmaker, P. Ahern

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9:56	M.O.	1	HT	Fo, stand	—	E	150m	27	14W	636163	7159386
11:12	RaTa	1	HT	FO	—	E	250m	87	14W	630294	7206182
11:18	RaTa	28	HT	walk	N	W	100m	91	14W	630912	7210050
13:43	RaTa	2	HT	Fo, stand	—	W	450m	86	14W	629778	7205384
14:07	PeFa	1	Quarry 16	Perch	—	W	200m	70	14W	627232	7193064
14:38	RoLeHa	1	AWAR	stand	Variable	AWAR	—	59	14W	625130	7183156
14:55	SnGo	300	HT	Rest	—	E	150m	46	14W	626618	7173018
15:24	PeFa	5	Quarry 3	Fly, hover	—	E	150m	23	14W	638013	7156415
15:40	PeFa	1	Quarry 2	Perch, fly	Variable	W	500m	13	14W	642081	7147592

AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Sept. 01, 2017 **Time Started:** 12:45 **Time Ended:** 13:15

Temperature: 10C **Wind Speed:** 18 Km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** ~~Clear~~ Cloudy

Field Team: V. Utatnaq, P. Ahern

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
12:53	SnGo	125	AT	rest	—	~	75m		17W	639348	7216380
12:58	RcTa	4	VAULT	Fo, WALK	N	W	50m		15W	358939	7217604
13:05	SnGo	75	Rock, Ht	rest	—	E	300m		15W	359079	7217993

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017-09-08 **Time Started:** 14:02 **Time Ended:**

Temperature: 10C **Wind Speed:** ~~South~~ 30 **Wind Direction:** South

Visibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:** Clear

Field Team: Jamie K / David T

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
14:20	caribou	4		grazing		west	75	99	14W	0633827	7215072
14:27	Snow geese	16		grazing		east	20m		14W	0632258	7212628
14:31	caribou	2		grazing		east	200m	93	14W	0631041	7211953
14:36	"	1		"		west	40m	90	14W	0630900	7210034
14:40	Snow geese	12		"		west	60 m	90	14W	0631078	7208706
14:48	" "	~50		"		west	120 m	88	14W	0629913	7205837
14:53	" "	~120		"		east	50 m	85	14W	0628727	7204218
14:59	Snow geese	~60		"		west	40m		14W	0627515	7202937
15:30	"	~40		grazing		west	75m	67	14W	0626938	7190214
15:33	"	~66		"		West	40m	66	14W	0626696	7189649
15:51	"	12		"		east	45m	54	14W	0626626	7180172
16:31	"	~30		grazing		west	70m	32	14W	0635459	7160646
16:44	Sandhill cranes	2		Standing		east	15m	18	14W	0639172	7154352
17:06	" "	2		"		east	50m	13	14W	0644049	7142561

Vault

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017-09-03 **Time Started:** 13:15 **Time Ended:** 14:01

Temperature: 10C **Wind Speed:** 20 km/h **Wind Direction:** South

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: Jamie K / David T

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:22	Snow geese	30		grazing		E + W	35m	0	14W	96°02'26.5"	65°02'28.5"
13:37	" "	15		grazing		East	40m	0	14W	0360095	7220589
13:44	caribou	1		grazing		East	200m	0	14W	0359122	7218126
	Snow geese	11		grazing		WEST	50		14W	0641042	7217512
13:52	snow geese	40		grazing		west	200m		14W	0639881	7217051
13:55	Snow geese	20		grazing		East	30m		14W	0639257	7216289

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: September 12, 2017 **Time Started:** 12:30 **Time Ended:** 15:35

Temperature: ~~10C~~ 1°C **Wind Speed:** 20 km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Letourneau, M. Theriault

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:12	Rata	1	Rock, HT	Fo, Ln	—	W	300m	98	14W	633271	7214356
14:21	ArFo	1	HT	St, walk	—	E	150m	53	14W	624988	7177536
15:01	CaGo	~~8~~	HT	2W, Fly	S	W	100m	23	14W	637923	7156428
15:01	M.O.	29	Grassy HT	St, Forf	—	E	300m	22	14W	"	"
15:29	SaCr	3	HT.	Fo, Walk	—	E	50m	4	15W	355184	7139042

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: September 15, 2017 **Time Started:** 12:30 **Time Ended:** 15:30

Temperature: ~~10C~~ -2°C **Wind Speed:** 2km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** ~~Clear~~ overcast

Field Team: V. Lutatine, M. Therien

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:00	Ptarm	4	AWAR	Walk, fly	—	AWAR	0	93	14W	632297	7126774
13:32	Sn Go	100	HT	rest, walk	—	E	400m	73	14W	626791	7195537
14:01	RaTa	1	AWAR	FO, walk	variable	W	100m	64	14W	626407	7180453
14:05	Sn Go	10	HT	Rest	—	E	200m	63	14W	625512	7178691
14:17	Salr	3	Grassy HT	Rest	—	E	50m	45	14W	627742	7172789
14:55	M.O.	23	Hillside	FO, Rest	—	E	350m	33	14W	633127	7163432
14:06	Sn Go	12	HT	"	—	E	150m	32	14W	"	"
15:07	Sn Go	40	HT	Rest	—	E	75m	13	14W	642800	7147257
15:05	M.O.	1	Hillside	FO	—	W	350m	12	14W	643093	7146449
15:11	Sn Go	12	"	FO, Rest	—	E	100m	8	14W	644078	7142475
15:13	"	6	HT	", fly	S	E	50m	6	14W	644651	7141189
15:19	Acla	2	HT	FO	—	E	75m	4	15W	755886	7177811

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: September 19, 2017 **Time Started:** 12:30 **Time Ended:** 16:00

Temperature: ~~10C~~ 8° C **Wind Speed:** 8km/h **Wind Direction:** S

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Uttatuq, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:50	RaTa	8	Vault	Rest	—	E		—	14W	653147	9559447
12:51	CaGo	30	HT	Rest, Fly	S	E-W	50m	—	14W	634033	7216022
13:07	SnGo	7	Hill side	Rest	—	W	300m	90	14W	630971	7209302
13:14	SnGo	20	Pond	Rest	—	W	150m	88	14W	630827	7206443
13:23	PeFa	1	Quarry 19	Perch	—	W	50m	84	14W	628696	7204223
13:50	PeFa	1	Quarry 16	Perch	—	W	75m	70	14W	627276	7193059
14:50	CaGo	4	ridge	rest, stand	—	W	100m	35	14W	631256	7164394
14:58	SaLa	1	Rocky Ht	Sit	—	E	250m	31	14W	633919	7162744
15:05	Raptor	1	—	Fly, Hover	variable	E	400m	28	14W	635607	7160478
15:34	SnGo	32	HT	rest, walk	—	W	75m	11	14W	643226	7146077
15:41	SaLa	4	"	"	—	W	100m	8	14W	644094	7142433
15:50	SnGo	2	"	stand	—	W	50m	4	14W	356152	7137576
15:52	ArFo	1	"	run	variable	W	75m	3	14W	356386	7136771
15:52	ArHa	1	"	rest	—	W	50m	3	14W		

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Sept. 22, 2017 **Time Started:** 12:30 **Time Ended:** 15:30

Temperature: 10C **Wind Speed:** **Wind Direction:**

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Ulutaruq, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
12:53	PeFa	1	Quarry 21	Perch	—	W	100m	93	14W	630889	7211726
13:33	PeFa	1	Quarry	Perch	—	W	75m	70	14W	627204	7193175
14:06	Raptor	1	Quarry	Fly, Hover	—	W	300m	53	14W	625338	7178675
14:43	M.D.	25	Hill Top	Fd, walk	—	E	500m	33	14W	633025	7163329
15:02	PeFa	1	Quarry 3	Perch	—	E	150m	23	14W	637895	7156461
15:25	S. Go	40	Bushy HT	rest	—	E	100m	18	14W	643793	7144515

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: September 29, 2017 **Time Started:** 13:20 **Time Ended:** 16:15

Temperature: ~~10C~~ 1°C **Wind Speed:** 35 gust 45 km/h **Wind Direction:** S

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear Light rain

Field Team: V. Letchum, T. Thomson, J. Kirkwa

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
14:21	M.O.	10	HT	FO, stand	—	W	250m	70	14W	627207	7193529
15:43	ArFo	1	HT	walk	NW	W	200m	14	14W	639360	7154043

AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: September 29, 2017 **Time Started:** 12:30 **Time Ended:** 13:20

Temperature: ~~10C~~ 1°C **Wind Speed:** 35 gust 45 km/h **Wind Direction:** S

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** ~~Clear~~ Light rain

Field Team: V. Hutchings, T. Thomson, John Kirkwa

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
11:01	Raven	4	HT	Fo, Stnd	—	W	100m		14W	139306	7216327

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: July 04, 2017 **Time Started:** 12:15 **Time Ended:** 15:30

Temperature: 14°C **Wind Speed:** 2 km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Kutafina, M.

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:26	Pe Fa	1	AT	Fly	—	E	75m	66	14W	626729	7185733
17:17	Sandhill Crane	2		Flying	W	W	1000	82			

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AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: July 14, 2017 **Time Started:** 12:30 **Time Ended:** 15:45

Temperature: 12° C **Wind Speed:** 37-50 Km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V.Kutiftmaz[illegible]

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9:46	LoTaDu	1	Lake	swim, fly	E	E	150m	12	14W	641464	7149703

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: July 18, 2017 **Time Started:** 12:30 **Time Ended:** 15:30

Temperature: 9°C **Wind Speed:** 46 gust 57 km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Period of rain / drizzle, light rain

Field Team: V. Uttatmark, P. Ahern

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
11:20	M.O.	1°	Rocky HT	stand, fo	—	E	200 m	91	14W	631003	7209157
13:49	LoTaJa	1	AWAR	on rd / fly	variable	—	—		14W	625156	7182660
14:25	Ar.Fo	1	"	walk	E	AWAR	—	45	14W	628875	7171222
14:55	M.O.	1	HT	walk	W	W		12	14W	639452	7153696
14:57	SaCr	2	HT.	Fly	W	W	100 m		14W	640175	7152218

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AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: July 21, 2017 **Time Started:** 09:00 **Time Ended:** 15:30

Temperature: 10°C **Wind Speed:** 21 km/h **Wind Direction:** N/A

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** —

Field Team: V. Uttatmang, Passenger Bus

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9:44	M.O.	1	Grassy HT	Stnd	—	E	350m	13	14W	641859	7149332
10:48	M.O.	1	Lake shore	stand	—	E	200m		14W	625461	7182563
11:17	CaGo	8	Pond	swim	—	E	75m	54	14W	628691	7204226
13:49	M.O.	10	Rock, HT	run, walk	NE	E	500m	49	14W	625441	7174615

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AGNICO EAGLE AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: July 25 2017 **Time Started:** 13:05 **Time Ended:** 15:45

Temperature: 13°C **Wind Speed:** 23 km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:** Mostly cloudy

Field Team: [illegible]

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:10	Sik sik	1	AWAR	—	—	—	—	104	14W	636807	7216179
13:12	"	2	AWAR	1 live / 1 dead	—	—	—	103	14W	636437	7216446
13:20	Pefa	1	Quarry 22	Perch	—	W	75m	99	14W	633992	7216219
13:29	Pefa	2	Quarry 21	Fly, dive	—	W		93	14W	630866	7211782
13:43	Pefa	1	Quarry	Perch	—	W	75m	85	14W	628677	7204220
13:44	Sikrik	2	AWAR	walk across	—	—	—	85	14W	"	"
13:47	Gull	2	NT	Stand, walk	—	—	75m	54	14W	627077	7203306
13:57	Horned	1	AWAR	Fly	variable	—	—	79	14W	626517	7206714
14:12	Pefa	2	Quarry	Perch, Fly	—	W	100m	71	14W	627246	7193196
14:48	Sik sik	3	AWAR	walk, stand	—	—	—	49	14W	625486	7174264
14:56	Arctic	1	NT	walk	variable	E	75m	48	14W	626135	7173202
14:59	Canada	6	AWAR	walk	E	—	—	43	14W	629612	7169243
15:12	Sik-Sik	4	AWAR		—	—	—	36	14W	634253	7161698

1 of 1

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: October 03, 2017 **Time Started:** 13:30 **Time Ended:** 16:15

Temperature: ~~10C~~ -3 **Wind Speed:** 35 gust 53 km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: [illegible], M. Therien

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
14:29	Siksik	1	AWAR	walk	—	AWAR	—	68	14W	626865	7191023
14:43	"	1	"	"	—	"	—	60	14W	625477	7183929
15:14	"	"	"	"	—	"	—	37	14W	630432	7165391
15:47	"	"	"	"	—	"	—	10	14W	643530	7145245
16:00	Ar Ha	3	AWAR	sit	—	E	50m	2	14W	356380	7136623

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: October 05 2017 **Time Started:** 13:25 **Time Ended:** 16:35

Temperature: ~~10C~~ -5° c **Wind Speed:** 14 km/h **Wind Direction:** NNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utatnaq, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:25	RaTa	50	AWAR	wlk across AWAR	E	AWAY	—	57	14W	625872	7181486
14:04	ArFo	1	Pond	sit on ice	—	W	100m	88	14W	631058	7206557
14:27	Ptarmigan	30	Rocky	Flg	—	E	50	74	14W	626319	7197416
15:01	"	20	AWAR	Flg	SW	E-W	—	57	14W	625456	7180655
16:30	Ar Ha	1	HT	sit	—	W	50m	3	15W	355808	7137837

AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: October 05, 2017 **Time Started:** 12:45 **Time Ended:** 13:25

Temperature: 10C -5°C **Wind Speed:** 14 km/L **Wind Direction:** NNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utatnaq, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
			No wildlife sighted								

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: October 10, 2017 **Time Started:** 12:30 **Time Ended:** 15:55

Temperature: ~~10C~~ -7 **Wind Speed:** 22 Km/h **Wind Direction:** NNW

Visibility (check): ☐ 100m ☐ 500m ☒ 1 km **Precipitation:** Clear

Field Team: V. Utatuag, M. Merien

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:15	ArFo	1	H.T	walk	variable	E	100m	48	14W	627052	7172860
14:47	ArHa	1	HT	sit	—	E	50m	44	14W	626560	7173148
14:51	ArHa	1	Hillside	sit	—	W	50m	45	14W	628607	7172003
14:59	SiSi	2	AWAR	walk	variable	AWAR	—	38	14W	630082	7167059
15:03	RaTa	8	Hillside	Fo, walk, stand	—	E	201m	37	14W	630599	7165118
15:10	RaTa	60	Hillside	Fo, stand	—	E	700m	33	14W	633343	7163629
15:28	M.O.	1	HT	Fo, stand	—	E	1 Km	18	14W	640215	7152050
15:43	Rd Kill ARHA	1	AWAR	—	—	AWAR	—	7	14W	644408	7141682
15:47	ArHa	1	AWAR	sit, Fo	—	W	50m	4	14W	644781	7139913

... Survey Field Sheet

... of the access; it is important all fields in ...

☐ 500 m ☑ 1 km

Wind Speed: 22 Km/h

Time Started: [illegible]

Precipitation: Clear

AWAR

Completed: 15:55

Direction: NNW

Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road
	walk			
	sit	variable	E	200 m
	sit	—	E	[illegible]
	walk	—	W	[illegible]
Fo	walk, stand	variable	AWAR	[illegible]
Fo	stand	—	E	[illegible]
Fo	stand	—	E	200 m
	—	—	E	700 m
	—	—	E	1 km
Fo		—	AWAR	—
			W	50 m

Easting	Northing
...7052	7172860
...560	7172148
...807	7172003
...652	7167058
...599	7165118
...343	7163629
...215	7152050
...408	7141682
...281	7139913

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017/10/10 **Time Started:** 16H00 **Time Ended:** 16H30

Temperature: ~~100~~ -6°C -13°C windchill **Wind Speed:** 32KM/H **Wind Direction:** N / NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** (Clear)

Field Team: FANNY LAPORTE

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing

NO Observation

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: October 13, 2017 **Time Started:** 12:30 **Time Ended:** 15:30

Temperature: ~~10C~~ -6°C **Wind Speed:** 37 Km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** ~~Clear~~ Chance of flurries

Field Team: V. Utatnaq, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:38	RaTa	20	HT	Fo, stand	—	E	350 m		14W	627295	7192895
10:46	RaTa	30	Hilltop	Fo, stand	—	E	300 m	71	14W	626029	7199558
12:46	M.O.	2	Lake shore	Fo, stand	—	W	250 m	92	14W	630917	7210156
13:00	RaTa	100	Lake, ice	walk	N	E	1 Km	84	14W	628117	7203828
13:13	RaTa	250	HT	St, Fo, wk	N	E	450 m	77	14W	626120	7199691
14:07	RaTa	32	HT	Fo, St	—	E	700 m	46	14W	625537	7173836
14:15	Ptarmigan	20	HT	Flg	N	E	100 m	38	14W	629049	7171055
14:33	"	10	HT	Flg	-	W	"	30	14W	634142	7162048
14:42	Ar Fo	1	AWAR	walk across	E-W	AWAR	—	22	14W	638586	7155312

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: October 17, 2017 **Time Started:** 12:45 **Time Ended:** 15:30

Temperature: ~~10C~~ -9°C **Wind Speed:** 8 km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Mahony, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9:30	Ar. Fo	1	AWAR	walk	—	AWAR	—	10	14W	626129	7149558
14:51	Raven	3	Quarry 3	flying	variable	—	50m	23	14W	638031	7156201
15:04	Raven	4	Bridge 1	Perch	—	—	—	8	14W	643698	7144722
15:36	ARTA	5	Tmk farm	rest	—	—	50m	—	15W	357056	7134522

AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: October 17, 2017 **Time Started:** 12:20 **Time Ended:** 12:45

Temperature: ~~10C~~ -9°C **Wind Speed:** 8 km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utatnaq, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
				NO WILDLIFE SIGHTED.							

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: October 20, 2017 **Time Started:** 12:30 **Time Ended:** 13:15

Temperature: ~~10C~~ -2°C **Wind Speed:** 35 km/h **Wind Direction:** SSE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** ~~Clear~~ overcast 60% chance flurries

Field Team: V. Watatnaq, T. Thomson

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
11:13	RaTa	20	Rocky hill	standing	—	W	300m	89	14W	631166	7208044
13:58	Ptarmigan	40	AWAR	land, flying	SW	AWAR	—	46	14W	628341	7172413
	2017-10-20			Vault							
	Tom T + Fanny K						9:30 - 10:30				

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: October 24, 2017 **Time Started:** 12:30 **Time Ended:** 15:45

Temperature: ~~10C~~ -12 **Wind Speed:** 27 km/h **Wind Direction:** WNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utatnaq, T. Thomson

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:20	M.O.	4	HT	Stat, Fo	—	W	2 Km	53	14W	625048	7127917
	Oct 24, 2017			10:00 - 10:45						Vault	
	Tom T + Fanny L										

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Nov. 07, 2017 **Time Started:** 12:30 **Time Ended:** 15:00

Temperature: ~~10C~~ -26 C° **Wind Speed:** 32 km/h **Wind Direction:** N

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utatnang M. Theriault

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:21	Rata	1	Hill	St.	—	E	800m	68	14W	326923	7190764
				Vault							
8h30	Rata	6	tundra	walking	N-E	E	400m	2	—	—	—

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AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: November 10, 2017 **Time Started:** 9:00 am **Time Ended:** 15:00

Temperature: ~~10C~~ -16°C **Wind Speed:** 26 km/h **Wind Direction:** SE

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** ~~Clear~~ Blowing snow

Field Team: V. Ultatnaq, PEL Daily Ride

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
13:15	ArWo	1	AWAR	Run	E	E	100m	84	14W	627446	7203050
13:25	RaTa	14	HT	walk	N	W	150m	72	14W	626802	7195301

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AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: 2017/11/11 **Time Started:** 9H00 **Time Ended:** 9H45

Temperature: 10C **Wind Speed:** 30km /h **Wind Direction:** NO

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: TAWNY LAPORTE

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
			Note: NO Sighting of the injured caribou behind Kitchen								

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: November 14, 2017 **Time Started:** 12:45 **Time Ended:** 15:30

Temperature: ~~10C~~ -18°C **Wind Speed:** 23 km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utatnaq, F. Raporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
9:57	Rattc	9	HT	walk	N	E	300m	27	14W	631235	7158958
11:14	M.O.	2	Hill	stand	—	E	1 km	89	14W	631701	7212372
14:43	Raven	3	AWAR	scavenge	—	—	—	32	14W	633981	7162339
14:43	Rd kill ARHA	1	"	—	-	-	-	"	"	"	"

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AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: Nov. 14, 2017 **Time Started:** 12:25 **Time Ended:** 12:45

Temperature: 10C -8°C **Wind Speed:** 23 km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utatnang, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
			No WILDLIFE SIGHTED								

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AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: November 18, 2017 **Time Started:** 09:00 **Time Ended:** 14:30

Temperature: ~~10C~~ -5°c **Wind Speed:** 36 km/h **Wind Direction:** ENE

Visibility (check): ☑ 100m ☐ 500m ☐ 1 km **Precipitation:** ~~Clear~~ Blowing snow

Field Team: Villatnaz, PEL Dorothy Ride

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
11:26	RaTa	1	dT	Stand	—	W	100m	91	14W	632859	723525
12:56	RaTa	6	HY	stand, Fo	—	E	100m	61	14W	626081	7185246
14:02	RaTa	60	Lake	walk	N	E	150m	6	14W	644479	7141521

AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: November 24, 2017 **Time Started:** 13:25 **Time Ended:** 16:30

Temperature: ~~10C~~ -12°C, **Wind Speed:** 18 km/h **Wind Direction:** N/NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** ~~Clear~~ Overcast

Field Team: V. Utatnaq, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
11:19	M.O	3	HF	Rest	—	W	150m	25	14W	632471	7212970
13:37	Ac Fo	1	Tailing Pnd	Scavenge	variable	W	—		14W	637270	7216147
13:37	Raven	4	"	"	"	"	—		14W	"	"
13:26	Ac Fo	1	AWAR	Walk	variable	W	50m	38	14W	629967	7167679
15:50	Ac FO	1	AWAR	@ rd kill	—	AWAR	—	23	14W	637426	7156712
15:50	Raven	3	"	"	—	"	—	23	"	"	"
16:14	Wlf Tracks	4	AWAR	Going North	N	AWAR	AWAR	13		643789	7149370

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AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: November 24, 2017 **Time Started:** 12:45 **Time Ended:** 13:25

Temperature: ~~10C~~ -12°C **Wind Speed:** 18 Km/h **Wind Direction:** NNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear overcast

Field Team: V. Unterhuber, J. Kotaluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
			NO WILDLIFE SIGHTED								

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AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: November 28 2017 **Time Started:** 09:00 **Time Ended:** 14:15

Temperature: ~~10C~~ -21°C **Wind Speed:** 15 gust 34 km/h **Wind Direction:** SW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utatnay, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
10:31	ArFo	1	AWAR	scavenge	variable	E	50m	40	14W	630008	7167804
11:03	RaTa	7	Hill	Fo, stand	—	E	250m	64	14W	626422	7187411
11:11	ArFo *	3	AWAR	*	—	E	100m	71	14W	626878	7194423
11:29	RaTa		HT	run	NE	E	600m	89	14W	631321	7206958
11:32	M.O.	3	HT	stand	—	W	600m	94	14W	632706	7213255
13:42	RaTa	14	Rocky HT	st. walk	NW	E	800m	92	14W	631044	7210836
13:53	RaTa	10	HT	walk	N	E	1km	88	14W	630815	7206436
14:11	RaTa	21	Rocky HT	walk	N	E	300m	79	14W	627060	7201139
14:25	ArFo	4	AWAR	@ rd kill		AWAR	—	71	14W	627024	7194031
14:46	RaTa	8	HT	Fo, stand	-	E	1km	59	14W	625391	7183733
16:04	Raven	15	Bridge	perch	variable	—	—	9	14W	643767	7143355

* Possible rabies

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AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: November 28, 2017 **Time Started:** 12:30 **Time Ended:** 13:09

Temperature: 10C -21°c **Wind Speed:** 15 gust 34 km/h **Wind Direction:** SW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utatnaq, J. Kataluk

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
				NO WILDLIFE	SIGHTED						

AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: December 01, 2017 **Time Started:** 13:00 **Time Ended:** 14:00

Temperature: ~~10C~~ -19°C **Wind Speed:** 15 km/h **Wind Direction:** WNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utotang, J. Kataluk +3 passengers

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
				NO WILDLIFE SIGHTED							

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AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: December 01, 2017 **Time Started:** 14.00 **Time Ended:** 17:00

Temperature: ~~10C~~ -19°C **Wind Speed:** 15Km/L **Wind Direction:** WNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** ~~Clear~~ light snow

Field Team: V. Intotnaq, J. Kataluk + 3 passengers

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
14:15	Raven	4	Tailing Rd	Scavenge	—	—	—		14W	637275	7216169
14:57	RaTa	2	HT	walk	NE	E	500m	80	14W	627783	7201770
15:24	Alf	1	AWAR	walk	W-S	AWAR	—		14W	627933	7172708

AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: December 05, 2017 **Time Started:** 12:30 **Time Ended:** 15:15

Temperature: ~~10C~~ -15°C **Wind Speed:** 18 km/h **Wind Direction:** NW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** ~~Clear~~ overcast

Field Team: V. Utatnaq, M. Theriault

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
11:36	M.O.	3	Rocky HT	Road	—	E	150m	94	14W	632451	7212091
12:59	Rata	6	Hillside	walk	SE	E	300m	92	14W	630919	7210145
13:54	Rata	1	Hill Top	stand	—	E	600m	53	14W	625049	7172569
13:54	A. Fo	1	HT	sit	—	E	100m	53	"	"	"
14:50	A. Fo	1	HT.	walk	variable	W	100m	12	14W	643001	7141705

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AGNICO EAGLE

AWAR

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: December 12, 2017 **Time Started:** 12:30 **Time Ended:** 15:20

Temperature: ~~10C~~ -31°c **Wind Speed:** 13Km/h **Wind Direction:** W

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: Viutatnaq, M. Therien

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
11:55	RcTa	1	Hill Top	Stand	—	E		106	14W	643647	7136044
11:55	ArFo	1	AWAR	walk across	S	AWAR	AWAR	106	14W	"	"
13:25	Wolverine	1	Quarry 18	walk	S	W	150m	80	14W	627599	7202091
13:32	ArFo	1	Hi.	walk	variable	W	100m	76	14W	627780	7199122
13:41	ArFo	1	AWAR	run across	E-W	AWAR	—	71	14W	627084	7193890

AGNICO EAGLE

VAULT

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

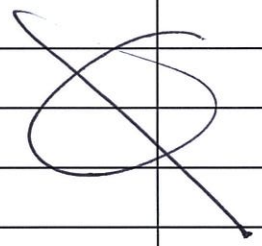
Date: 2017/12/12 **Time Started:** **Time Ended:** 9H20 - 9H35

Temperature: ~~10C~~ -25°C **Wind Speed:** ≠15 Km/H **Wind Direction:** S 13H @ 13H15

Visibility (check): ☐ 100m ☐ 500m ☐ 1 km **Precipitation:** (Clear) NO

Field Team: Fanny Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing



AWAR

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: December 15, 2017 **Time Started:** 08:30 **Time Ended:** 11:25

Temperature: ~~10C~~ -31°C **Wind Speed:** 18 km/h **Wind Direction:** WNW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** Clear

Field Team: V. Utatnaq, F. Laporte

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from Road	Distance from Road (m)	KM	GPS Zone	Easting	Northing
09:31	Ptarmigan	4	Bridge 2	Mingle	—	AWAR	Bridge 2	18	14W	640350	7151084
9:37	Ar Ha	2	I.T.	Run	—	E	100 m	22	14W	638930	7154752
10:26	Ar Fo	1	AWAR	Walk	SW	E	75m	62	14W	626020	7185107
11:08	M.O.	3	NT	stand, res?	—	W	300m	92	14W	632941	7213967
11:20	Ra Ta	16	NT	FO, stand	—	W	100m	106	14W	637279	7214914
VAULT →			13H30 @ 13H50		Nothing /F.L.						

AWAQ

AGNICO EAGLE

Meadowbank Access Road Wildlife Survey Field Sheet

This form is for collaborative systematic monitoring of the access; it is important all fields in the table below are completed

Date: December 29 2017 **Time Started:** 12:45 **Time Ended:** 16:15

Temperature: ~~10C~~ -35°C **Wind Speed:** 18km/h **Wind Direction:** SW

Visibility (check): ☐ 100m ☐ 500m ☑ 1 km **Precipitation:** ~~Clear~~

Field Team: V. Utotnes, Martin Theriault

Time	Species	Qty	Habitat Type	Behaviour	Direction of Travel	Direction from ~~Road~~	Distance from Road (m)	KM	GPS Zone	Easting	Northing
12:41	RaTa	17	Meadowbank	Fo, stand	—	S	750 m	109	14W	637858	7214056
13:40	RaTa	3	HT	" "	—	W	500 m	109	14W	634761	7217909
13:52	RaTa	3	HT	"	—	W	500 m	93	14W	631078	7211989
15:06	RaVan	20	Bridge 1	Perch	—	—	—	8	14W	643773	7143356
16:09	ArTa	1	AWAQ	sit	—	—	—	3	15W	356559	7137211
			Vault road 2017/12/29 10h to 10h30								
			No observation								
				Martin Theriault							