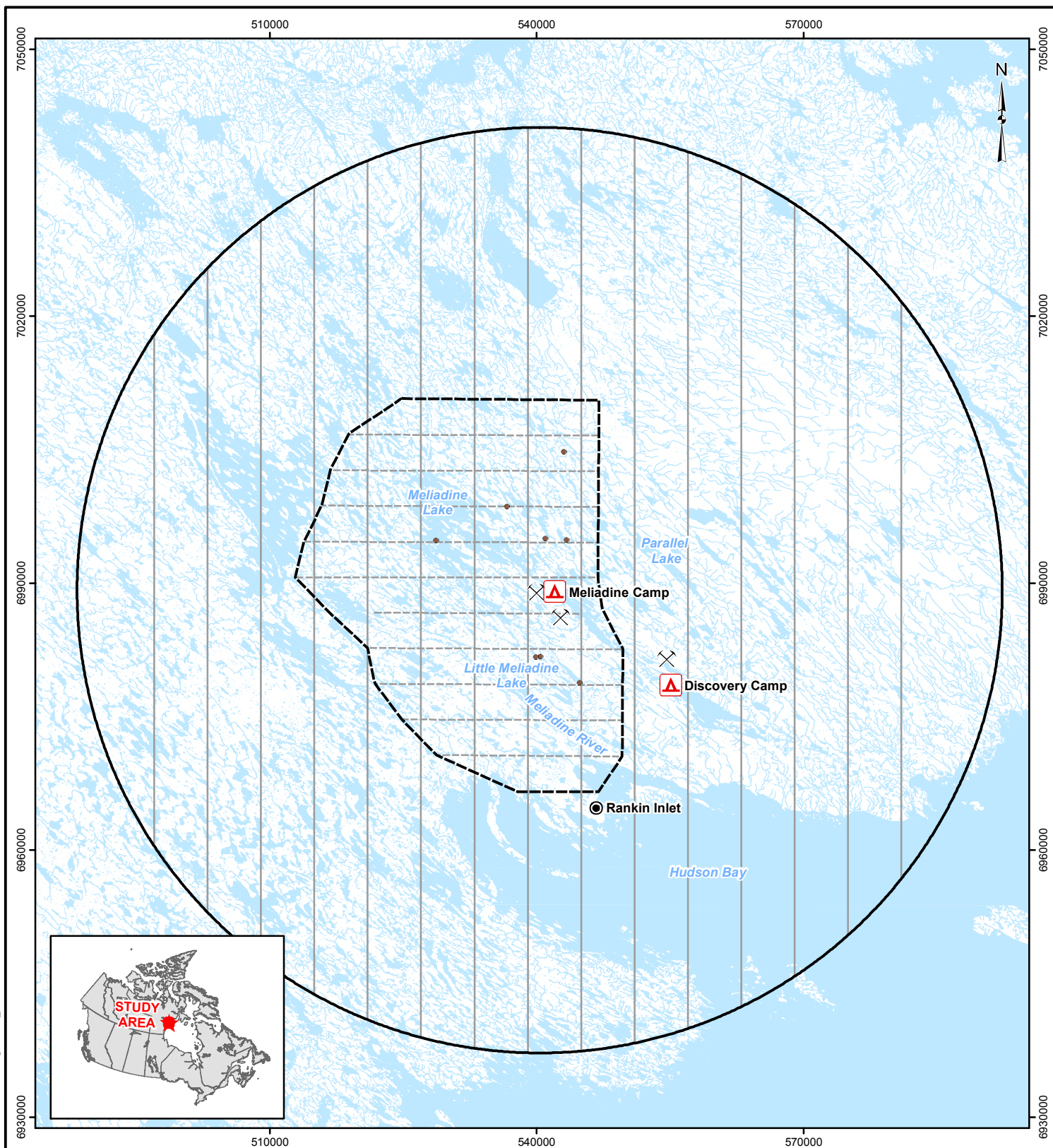










N:\Bur-Graphics\Projects\2007\1373\07-1373-0055\Maping\Map\XD\2009\Wildlife\figure-5-9\_caribou-observations-winter.mxd



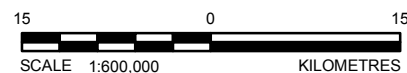
#### LEGEND

-  Camp
-  Aerial Survey Transect (2008-2009)
-  Aerial Survey Transect (1998-2000)
-  Watercourse
-  Caribou Study Area (1998-2000)
-  Terrestrial Regional Study Area
-  Waterbody
-  Proposed Mine Site
- Caribou Observed**
- 1 - 50
  - 51 - 100
  - 101 - 500
  - 501 - 1000
  - 1001 - 2000

#### REFERENCE

Base data obtained from NTDB. Wildlife data obtained from field survey.  
Projection: UTM Zone 15 Datum: NAD 83

**DRAFT**



PROJECT  
**COMAPLEX** MINERALS CORP  
COMAPLEX MINERALS CORPORATION  
MELIADINE GOLD PROJECT  
NUNAVUT

TITLE  
**CARIBOU OBSERVATIONS,  
EARLY WINTER PERIOD**



PROJECT NO. 09-1373-0010			PHASE No. 1000	
DESIGN	PS	23 Oct. 2009	SCALE AS SHOWN	REV. 0
GIS	JW	6 Nov. 2009		
CHECK	PS	13 Nov. 2009		
REVIEW	MJ	13 Nov. 2009		

**FIGURE 5-9**



## MELIADINE TERRESTRIAL BASELINE SYNTHESIS REPORT - DRAFT

**Table 5-5: Barren-ground Caribou Aerial Survey Observations, 1998 to 2000, 2008, and 2009**

Period	Month	Year									
		1998		1999		2000		2008		2009	
		Date	# Caribou Observed	Date	# Caribou Observed	Date	# Caribou Observed	Date	# Caribou Observed	Date	# Caribou Observed
Spring migration/calving	March	-		20	0	28	3926	-		-	
	April	-		12	0	-		-		-	
	May	20	19	-		-		-		19	4
	June	19	15	12	3	-		12/13	36	-	
Post-calving through fall migration and rut	July	17	4	23	162	-		21/22	5920	-	
	August	-		-		-		-		-	
	September	6	0	4	11	-		-		-	
	October	24	0	-		-		-		-	
Early winter	November	-		-		16	73	-		-	

Note: "-" indicates no survey was conducted

**Table 5-6: Number of Caribou Groups Observed and Mean Group Size, 1998 to 2000, 2008, and 2009**

Year	Spring Migration/Calving		Post-calving through Fall Migration and Rut		Early Winter	
	Number of Groups	Mean Group Size $\pm$ SE	Number of Groups	Mean Group Size $\pm$ SE	Number of Groups	Mean Group Size $\pm$ SE
1998	8	4.3 $\pm$ 1.7	1	4.0 $\pm$ 0.0	-	-
1999	1	3.0 $\pm$ 0.0	6	28.8 $\pm$ 26.6	-	-
2000	113	34.7 $\pm$ 3.8	-	-	8	9.1 $\pm$ 2.8
2008	36	3.3 $\pm$ 0.5	21	281.9 $\pm$ 133.5	-	-
2009	1	4.0 $\pm$ 0.0	-	-	-	-
Overall	159	25.7 $\pm$ 2.9	28	217.8 $\pm$ 101.9	8	9.1 $\pm$ 2.8

Note: "-" indicates surveys not conducted; " $\pm$ " indicates plus or minus; SE = standard error

Barren-ground caribou observations were used to extrapolate an estimate of the total number of caribou in the study area during each survey. The estimated value was based on the proportion of the study area surveyed (i.e., 25% for surveys between 1998 and 2000, and 15% for surveys in 2008 and 2009). As mentioned, barren-ground caribou could be abundant in the study area during the post-calving migration, with large groups recorded in 2008 and many smaller groups recorded during a spring migration/calving survey in 2000 (Table 5-7). Based on these estimates, barren-ground caribou presence in the study area appears to be quite variable among years. Recorded peaks likely were migration pulses where large numbers of animals quickly move through the study area.