

Pre-Permitting Environmental / Socio-Economic Data Report Series

Report Series N-Terrestrial Wildlife and Habitats

Report N-7 Terrestrial Mammal Tables 2004-2007

Submitted to the Alaska Department of Natural Resources January 2010

Preliminary data. Do not cite or quote.

The Pebble Partnership is providing environmental and socio-economic baseline data collected to inform the development of the Pebble Project to state and federal agencies, project stakeholders and the general public prior to project permitting as part of its commitment to full and open disclosure.

A comprehensive Environmental Baseline Document (EBD) will subsequently be prepared and appended to future project permit applications. The EBD will also be made publicly available when complete.

Collected for the Pebble Partnership by:



ABR, Inc. P.O. Box 24068 Anchorage, AK 99524

TABLE N-7.1 Species and Numbers of Mammals Recorded during Wildlife Surveys, Mine Study Area, 2004-2007

Survey Type	Year	Date	Brown Bear	Caribou	Moose	Wolf	Wolverine
Transect Surveys	2004	April 12	0	0	0	0	0
		May 21	5	30	0	0	0
		July 1	6	9,963	0	0	0
		Oct. 20	4	4	3	1	0
		Nov. 29-30	0	0	0	0	0
		TOTAL	15	9,997	3	1	0
	2005	March 29	0	0	0	0	0
		May 9	4	0	2	0	0
		May 25	6	1	1	0	0
		June 29	2	0	0	0	0
		July 21	2	16	0	0	0
		Oct. 10	5	0	0	0	0
		Dec 12	0	146	1	0	0
		TOTAL	19	163	4	0	0
	2006	May 24	1	0	1	0	0
		June 28	18	5,039	0	0	0
		July 14	1	1	2	0	0
		Dec. 1-2	0	0	2	0	0
		TOTAL	20	5,040	5	0	0
	2007	June 27	10	2,132	0	0	0
		July 16-17	6	45	0	0	0
		TOTAL	16	2,177	0	0	0
Stream/Den Survey	2004	Aug. 18-19	16	6	0	0	0
Den Checks	2005	May 11-12	3	0	0	0	0
		Aug. 29-30	4	10	0	0	0
	2006	May 8-9	4	0	0	0	0
		TOTAL	11	10	0	0	0
Beaver Survey	2005	October 9	5	0	3	0	0
Incidental	2004	April	0	3	0	1	0
Observations		May	0	5	0	0	0
(during other		June	5	65	0	1	1
wildlife surveys)		July	3	0	0	1	0
		September	21	0	0	6	0
		October	10	0	0	0	0
		TOTAL	39	73	0	9	1
	2005	May	4	6	19	0	0
		June	14	15	2	0	0
		July	21	0	0	0	1
		August	19	22	1	1	0
		September	5	0	0	0	0
		October	6	100	3	0	0
		TOTAL	69	143	25	1	1

TABLE N-7.2 Number of Large-mammal Groups Seen by Front Observer Only, Rear Observer Only, and Both Observers during Double-count Aerial Transect Surveys, Mine Study Area, June-July 2007

Observer	Caribou ^a	Brown Bear	Total
Front only	1	2	3
Rear only	2	2	4
Both	1	2	3
TOTAL	4	6	10

a. One large group of caribou was omitted because of its high probability of detection.

Preliminary Data Only Do Not Cite or Quote

TABLE N-7.3 Species and Numbers of Mammals Recorded during Wildlife Surveys, Transportation Corridor, Bristol Bay Drainages, 2004-2006

Survey Type	Year	Date	Brown Bear	Black Bear	Moose	Caribou	Coyote	Wolf	Wolverine
Fixed-wing Surveys	2004	April 12	0	0	3	0	0	0	0
		May 21	1	0	6	0	0	0	0
		June 30	0	1	0	0	0	0	0
		Oct. 20-21	0	0	3	0	0	0	0
		Nov. 30	0	0	0	0	0	0	0
		TOTAL	1	1	12	0	0	0	0
	2005	Mar. 29-30	0	0	10	0	0	0	0
		May 9-10	0	0	1	0	0	0	0
		May 24-25	0	0	4	0	0	0	0
		June 28-29	2	2	0	0	0	0	0
		October 11	1	0	5	0	1	0	0
		Dec. 12-13	0	0	4	0	0	0	0
		TOTAL	3	2	24	0	1	0	0
	2006	Dec. 2	0	0	27	0	0	0	0
Stream/Den Survey	2004	Aug. 18-20	15	0	0	0	0	0	0
Den Checks	2005	May 11-12	0	0	1	0	0	0	0
		Aug. 29-30	1	0	0	0	0	0	0
		TOTAL	1	0	1	0	0	0	0
Beaver Survey	2006	Oct. 16-17	0	0	0	0	0	0	0
Incidental	2004	April	1	0	2	0	0	0	0
Observations		May	0	0	2	0	0	0	0
(during other		June	0	0	0	1	0	0	0
wildlife surveys)		September	1	0	1	0	0	0	0
		October	0	0	4	0	1	0	0
		TOTAL	2	0	9	1	1	0	0
	2005	April	0	0	3	0	0	1	0
		May	8	2	13	0	1	0	1
		June	4	0	2	0	0	0	0
		July	15	1	2	0	0	0	0
		August	18	2	1	0	0	1	0
		September	10	0	2	0	0	0	0
		October	0	0	7	0	0	0	0
		TOTAL	55	5	30	0	1	2	1

TABLE N-7.4 Number of Large-mammal Groups Seen by Front Observer Only, Rear Observer Only, and Both Observers during Double-count Aerial Transect Surveys, Transportation Corridor, Bristol Bay Drainages, March-October 2005

Observer	Moose	Brown Bear	Black Bear	Total
Front only	5	2	0	7
Rear only	4	0	0	4
Both	2	2	0	4
TOTAL	11	4	0	15

Preliminary Data Only Do Not Cite or Quote

TABLE N-7.5 Regional List of Mammal Species, Bristol Bay Drainages

Order	Family	Genus	Species	Common Name
INSECTIVORA	Soricidae	Sorex	cinereus	Common Shrew
			hoyi	Pygmy Shrew
			monticolus	Dusky Shrew; Montane Shrew
			palustris	Water Shrew
			tundrensis	Tundra Shrew
			yukonicus	Tiny Shrew
CHIROPTERA	Vespertilionidae	Myotis	lucifugus	Little Brown Bat
CARNIVORA	Canidae	Canis	latrans	Coyote
			lupus	Gray Wolf
		Vulpes	vulpes	Red Fox
	Felidae	Lynx	canadensis	Lynx
	Mustelidae	Lontra	canadensis	River Otter
		Gulo	gulo	Wolverine
		Martes	americana	Marten
		Mustela	erminea	Short-tailed Weasel, Ermine
			nivalis	Least Weasel
		Neovison	vison	Mink
	Phocidae	Phoca	vitulina	Harbor Seal
	Ursidae	Ursus	americanus	Black Bear
			arctos	Brown Bear
ARTIODACTYLA	Cervidae	Alces	alces	Moose
		Rangifer	tarandus	Caribou
	Bovidae	Ovis	dalli	Dall's Sheep
RODENTIA	Sciuridae	Marmota	caligata	Hoary Marmot
		Spermophilus	parryii	Arctic Ground Squirrel
		Tamiasciurus	hudsonicus	Red Squirrel
	Castoridae	Castor	canadensis	Beaver
	Dipodidae	Zapus	hudsonius	Meadow Jumping Mouse
	Muridae	Myodes	rutilus	Northern Red-backed Vole
		Dicrostonyx	groenlandicus	Collared Lemming
		Lemmus	trimucronatus	Brown Lemming
		Microtus	miurus	Singing Vole
			oeconomus	Tundra Vole
			pennsylvanicus	Meadow Vole
		Ondatra	zibethicus	Muskrat
		Synaptomys	borealis	Northern Bog Lemming
	Erethizontidae	Erethizon	dorsatum	Porcupine
LAGOMORPHA	Ochotonidae	Ochotona	collaris	Collared Pika
	Leporidae	Lepus	americanus	Snowshoe Hare

Sources: Osgood (1904), Cahalane (1959), Cook and MacDonald (2004a, 2004b), Jacobsen (2004), MacDonald and Cook (2007).