

A preliminary survey of the beetles (Coleoptera) in Caribou Mountains Wildland Provincial Park



Photo: D. Vujnovic, 2003



Photo: L. Allen, 2003



Photo: L. Allen, 2003

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Figure 1. The author in peatland habitat in the Wentzel Lake area.

1. Introduction

Caribou Mountains Wildland Provincial Park is one of a series of new parks created in recent years. Little is directly known of the flora and fauna. This study is a glimpse at the beetle diversity found during the 2003 survey. Many people contributed specimens for this study and many are working up different groups. Most arthropods were collected, and preserved in 70% ethanol or killed and placed in envelopes. Specimens were sorted and dispersed to other researchers to identify and curate. Spiders were passed to D. Buckle, dragonflies to D. Macaulay, butterflies and moths to D. Macaulay. The beetles are the focus of this report. The remaining insects, flies, bees, wasps, bugs and grasshoppers were sorted and vouchers pinned, to be worked on at a later date.

Caribou Mountains Wildland Provincial Park is located in the north-central region of Alberta (Figure 1.). This is an area of Boreal Forest dominated by black spruce and bogs. Limited areas of lodgepole pine, aspen and white spruce are found on drained upland sites. The understory is open with a variety of low shrubs, including blueberry, and various species of willow. Sphagnum mosses dominate the groundcover in the bogs. In Rowe (1972), nomenclature for this area is the lower foothill zone characterized by lodgepole pine, trembling aspen and balsam poplar in fire dominated areas with black spruce in the poorly drained areas. Johnson *et. al.* (1995), characterizes the area as Boreal, predominantly forest. The plateau is an area dominated by cryosolic soils (permafrost). Low topographic relief with low rolling hills is typical for much of the plateau. Lakes are a common feature of the topography, with large areas of impeded drainage, bogs and fens are present. A number of streams and rivers flow out of the study area, these have limited riparian zones.

Fire is a major factor in succession in the study area. The park is a mosaic of different aged burns. Many burns are centuries old with little reforestation due to the high water tables and permafrost. When flying into the base camp many of the burn blocks were readily discernable. Weather conditions for the July expedition were excellent, and collecting was good to excellent. Due to other obligations, my participation in the insect survey was limited to one week in the field. Over 3000 specimens were pinned and curated.

2. Collecting Methods

Arthropod sampling was conducted to optimize as many species as possible without regard to quantifying how much of what, was where. Sampling was modeled after Ryan and Hilchie (1981) and Southwood (1971). Some of the methods involved placing pit traps, and pan traps in representative habitats, sweep sampling vegetation, and hand collecting. Malaise traps were employed at two sites. A summary of collecting methods per site is summarized in Table 2. The species listings for this report follow a variety of sources, including the Checklist of Beetles of Canada and Alaska (Bousquet 1991) and American Beetles, Vol. 1 and 2, Arnett *et. al.* 2001, 2002). Taxonomic nomenclature is in a constant state of flux, some of the families acknowledged in this report were previously treated as subfamilies and have now been elevated to family status; the converse is also true with some reduced to subfamilies.

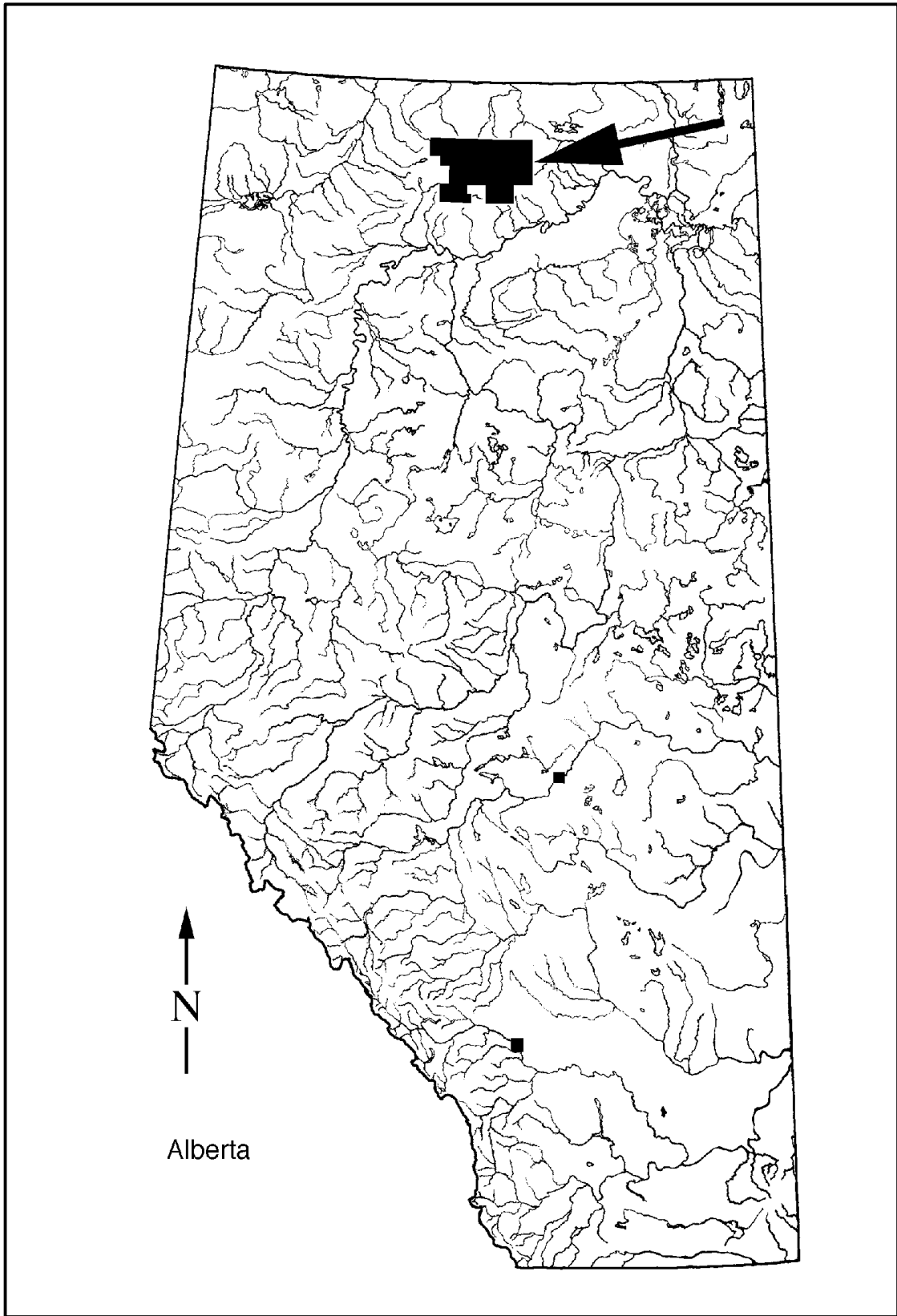


Figure 2. Location of Caribou Mountains Wildland Provincial Park in Alberta. Arrow indicates location of the park.

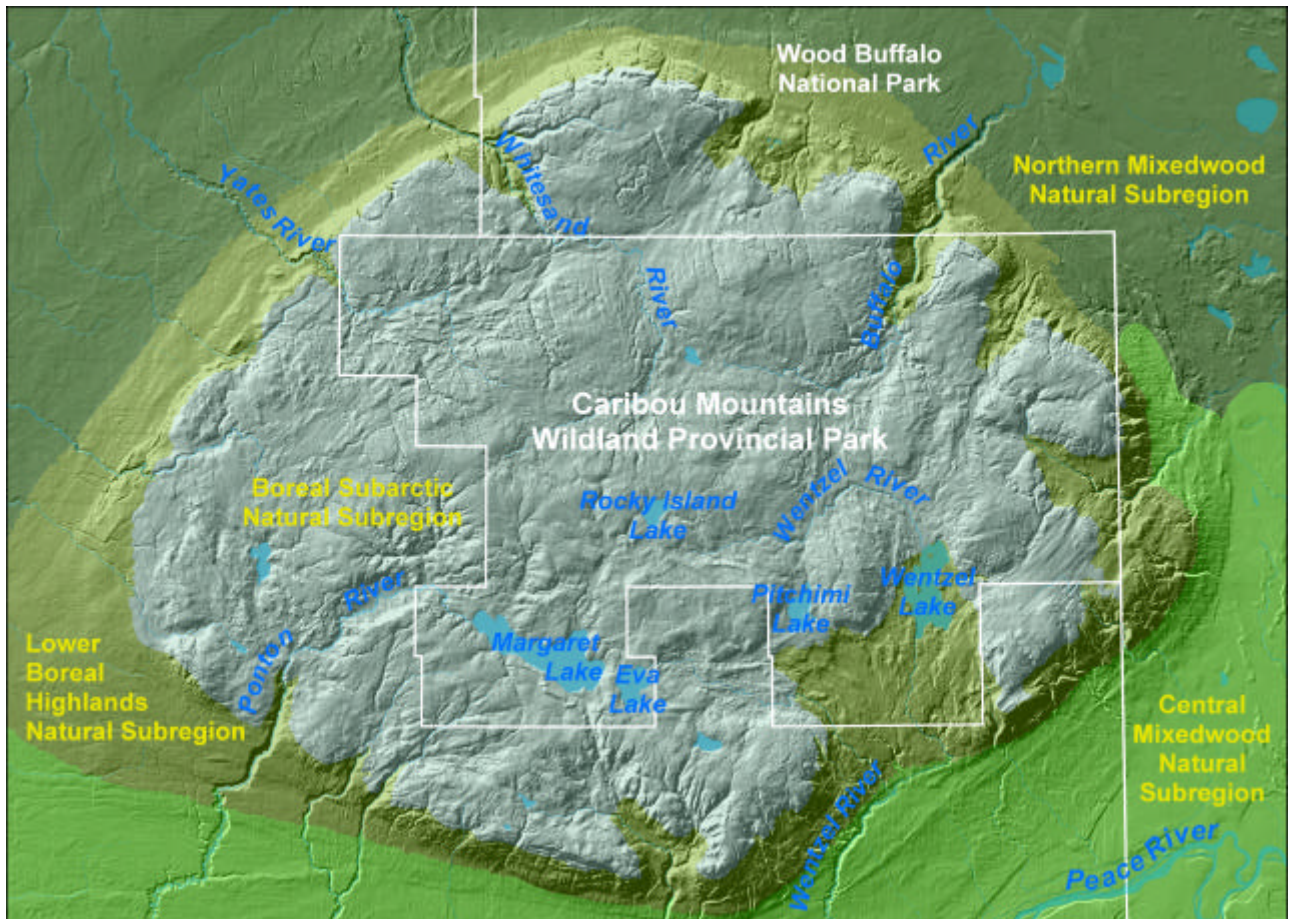


Figure 3. Geographic features of Caribou Mountains Wildland Provincial Park. Image prepared by Parks and Protected Areas Division, Alberta Community Development.

Taxonomic resolution depends on several factors; the most important is the condition of the specimen and availability of good keys and reference material. Most of the beetles were taken to species, some to genera and a few only to the subfamily level. Where reasonably possible, experts in the field were consulted.

In any biological study the results depend directly on the methods used. For insects, the most common but least reproducible method is general hand collecting. The major advantage is that anyone can catch a bug and add that species to the tally. Many insects were collected by other researchers on the park survey team. Slightly more reproducible results can be made using standardized trapping and collecting methods. An advantage of using malaise traps, pit traps, pan traps etc. is that collection of specimens occurs around the clock and is not dependant on a human observer. A disadvantage is that the traps measure activity of the insects and cannot be directly correlated to abundance. The purpose of the insect collections was to provide a faunal snapshot of what occurs in Caribou Mountains Wildland Provincial Park. To properly do an exhaustive survey, several full seasons of sampling are required. In this survey a variety of sampling methods were employed (Table 1) to gain a grasp of the diversity of insects found in the park.

Table 1. Habitat and collecting sites in Caribou Mountains Wildland Provincial Park.

Site	UTM COORDINATES (NAD 83, Zone 11)	Habitat	SAMPLING METHOD										
			pit traps	pan traps	bait traps	rearing	malaise trap	light trap	sweep net	aerial net	dip net	hand picking	
Horseshoe Lake, south east shore	6590600 N 0571300 E	beach, emergent vegetation								yes	yes	yes	yes
Horseshoe Lake, east of	6590800 N 0572500 E	fen and bog (along cutline)								yes	yes	yes	yes
Wentzel Lake, base camp	6549400 N 0647400 E	beach, sand and rock	12							yes		yes	
Wentzel Lake, base camp	6549300 N 0647400 E	sandy beach ridge, pine forest	12	2				1		yes	yes		yes
Wentzel Lake, base camp	6549250 N 0647400 E	spruce bog/muskeg	12							yes	yes		yes
Wentzel Lake, base camp	6549500 N 0647400 E	mixed wood, aspen, spruce, pine				vole			1				yes
Wentzel Lake, sand point	6546600 N 0646200 E	sand beach, south facing								yes	yes		yes
Wentzel Lake, Fish & Wildlife cabin	6544000 N 0647900 E	mixed wood, disturbed								yes	yes		yes
Wentzel Lake, Fish & Wildlife cabin	6544000 N 0647900 E	boulder beach											yes
Wentzel Lake, south beach	6540600 N 0647700 E	sand beach, north facing											yes
Wentzel Lake, south beach	6540600 N 0647700 E	upper beach	12	2						yes	yes		yes
Wentzel Lake, south beach	6540600 N 0647700 E	fen, creek back water								yes	yes	yes	yes
Wentzel Lake, outflow	6539200 N 0643700 E	river bank, sedges and willows								yes	yes		yes
Wentzel Lake, fishing camp	6547500 N 0642300 E	disturbed area, bog and beach					moose dung			yes	yes		yes
Wentzel Lake, river mouth	6544800 N 0645200 E	river mouth, beach and back water								yes		yes	yes
Wentzel Lake, birch point	6550200 N 0645800 E	rocky point, birch forest	12							yes			yes
Wentzel Lake, east of outflow	6539200 N 0644700 E	beach											yes
Wentzel Lake, east of outflow	6539200 N 0644700 E	bog								yes			yes
Wentzel Lake (T. Johnson)	6550410 N 0645690 E	birch, spruce											
Wentzel Lake (T. Johnson)	6549260 N 0647090 E	open muskeg											yes
Wentzel Lake (T. Johnson)	6550960 N 0645420 E	horsetail meadow											
Wentzel Lake (T. Johnson)	6550280 N 0647960 E	aspen grass											
Wentzel Lake (T. Johnson)	6550280 N 0647960 E	grass, cranberry											
Wentzel Lake (T. Johnson)	6550220 N 0647830 E	poplar, willow, grass											
Wentzel Lake (D. Vujnovic)	6549500 N 0647400 E	wet muskeg, mouse traps											
Wentzel River, upper, site 1	6554700 N 0643500 E	river bank, old growth spruce	12	2				1		yes	yes		yes
Wentzel River, upper	6555700 N 0642700 E	sedge meadow, drained beaver pond								yes	yes		yes
Wentzel River, upper	6556800 N 0642600 E	willow-sedge meadow								yes	yes		
Wentzel River, upper	6554700 N 0643500 E	beaver pond										yes	
Wentzel River, upper (T. Johnson)	6549960 N 0647470 E	grassy creek bank											

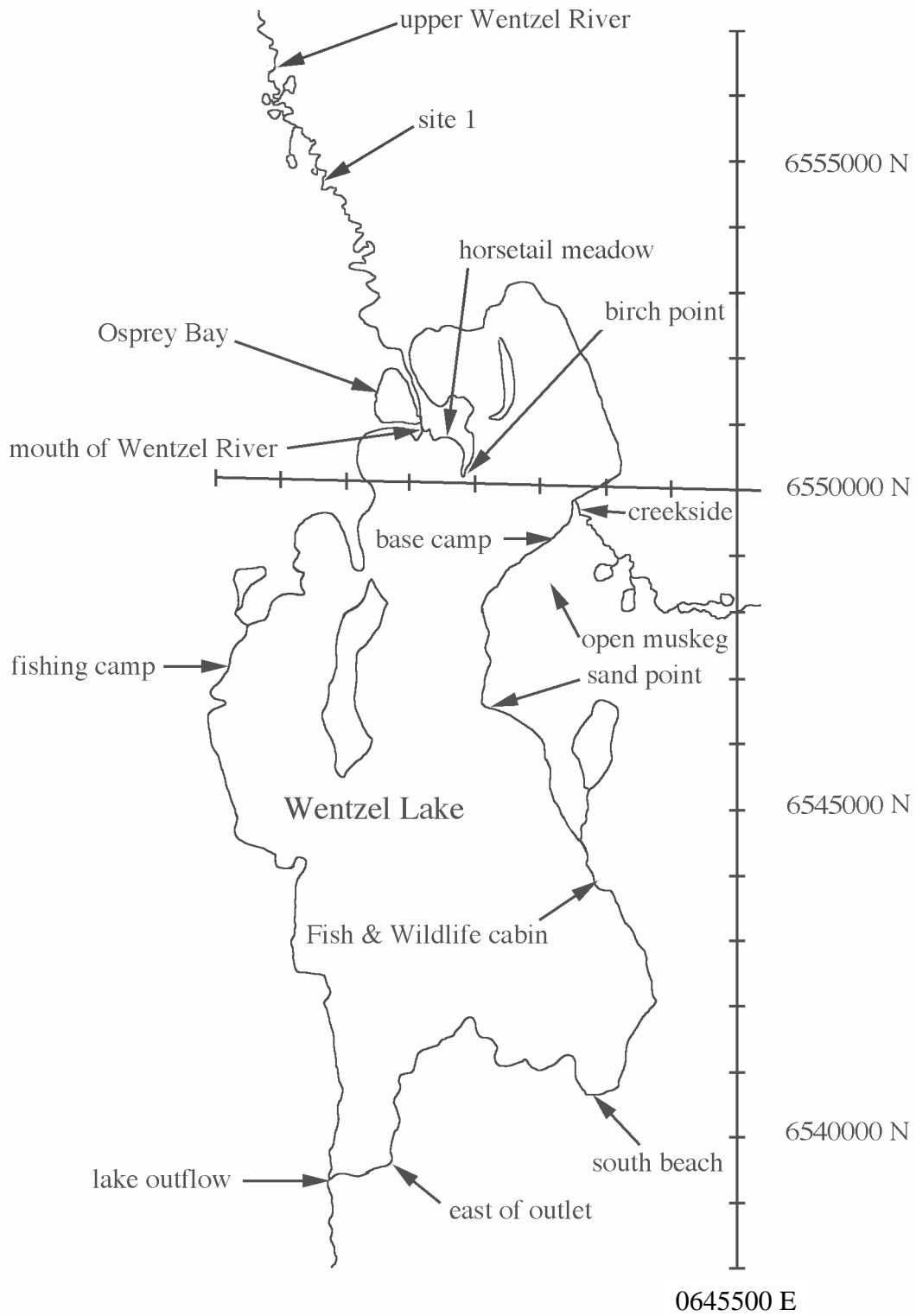


Figure 4. Collection site locations on the Wentzel River drainage.

2.1 Localities and Habitat types

Most collecting sites were restricted to areas accessible by boat or trail from Wentzel Lake, and the upstream portion of the Wentzel River. Habitat types are listed in Table 1 along with site location and UTM coordinates. Collecting locations around Wentzel Lake are shown in Figure 3. A day trip to the far, northwest corner of the park, (unnamed “Horseshoe” Lake) was made via floatplane.

For simplicity of location records in this report, the following have been used in the text: Wentzel Lake: base camp, sand point, birch point, south beach, east of outlet, lake outflow, Fish & Wildlife cabin, fishing camp. Wentzel River: site 1, upper Wentzel River, mouth of Wentzel River. Horseshoe Lake: south east shore, cutline running east of the lake towards a pattern fen.

2.2 Disposition of collected Arthropods

Vouchers of material collected will be placed in several different collections. The main recipients will be the Strickland Entomological Museum at the University of Alberta (Edmonton, Alberta) and the Provincial Museum (Edmonton, Alberta). Some specimens will be retained by the author as identification aids for future reports. Material not specifically targeted for research purposes will be incorporated into the Entomology teaching collection, at the University of Alberta.

3. Results

Over 3000 specimens were curated (excluding Lepidoptera, and Odonata) of which 2145 were beetles, many were discarded in the field as duplicates or damaged beyond recognition. Of the 2464 species of beetles reported in Alberta (Bousquet 1991), representatives of 44 families and 310 species were found (includes 12 species of Aleocharinae staphylinids and 3 species of Lieodid beetles where genus was not determined). Families of beetles expected to occur in the park, are listed, based on other insect surveys in northern Alberta (Ryan and Hilchie 1981; Barton and Wallace, 1980; Porter and Lousier, 1975). (See Appendix 1, Excel data sheet for exact beetle locality and collection data.)

3.1 Annotated list of taxa of Coleoptera

Class Hexapoda (=Insecta)

Subclass Pterygota

Order Coleoptera, beetles

Family Carabidae (48 species)

Cicindela duodecimguttata Dejean, 5, south beach, mouth of
Wentzel River

Carabus chamissonis Fisher, 5, creekside, base camp

Carabus taedatus Fabricius, 18, creekside, base camp, south
beach

Pelophila borealis (Paykull), 6, base camp
Nebria gylenhali castanipes (Kirby), 129, base camp, sand point, Fish and Wildlife cabin, south beach, fish camp, birch point
Notiophilus semistriatus Say, 1, base camp
N. borealis Harris, 8, base camp, open muskeg, birch point
Loricera pilicornis (Fabricius), 2, creekside
Elaphrus clairvillei Kirby, 6, upper Wentzel River, base camp
E. lapponicus Gyllenhal, 2, Upper Wentzel River
E. americanus Dejean, 8, Upper Wentzel River, Wentzel River site 1
E. californicus Mannerheim, 4, base camp, south beach, upper Wentzel River
E. purpurans Hausen, 1, base camp
Dyschirius nigricornis Motschulsky, 4, base camp, creekside
Miscodera arctica (Paykull), 3, base camp, south beach, open muskeg
Trechus apicalis Motschulsky, 2, base camp
Bembidion carinula Chaudoir, 39, base camp, sand point, south beach
B. sordidum Kirby, 46, upper Wentzel River, sand point, site 1, base camp, south beach
B. nigripes Kirby, 22, site 1, mouth Wentzel River
B. levettei Casey, 4, site 1, base camp, south beach
B. mutatum Gem. & Harold, 4, site 1
B. transparens Gebler, 5, base camp, creekside
B. canadianum Casey, 1, creekside
B. versicolor LeConte, 1, mouth Wentzel River
B. morulum LeConte, 1, base camp
B. incrematum LeConte, 4, site 1
Tachys nana inornata Say, 1, south beach
Patrobus stygicus Chaudoir, 8, creekside, mouth Wentzel River
Stereocerus haematopus (Dejean), 46, birch point, base camp, creekside, site 1
Pterostichus adstrictus Eschscholtz, 1, site 1
P. chipewyan Ball, 4, base camp, south beach, site 1
P. punctatissimus Fischer, 14, creekside, base camp
Amara pseudobrunnea Lindroth, 6, Horseshoe Lake, creekside
A. hyperborea Dejean, 2, base camp, south beach
A. laevipennis Kirby, 1, creekside
Harpalus innocuus LeConte, 1, base camp
H. fulvilabris Mannerheim, 1, creekside
H. ochropus Kirby, 1, south beach
Bradycellus lugubris LeConte, 1, birch point
B. lecontei Csiki, 2, base camp, east of out flow
Trichocellus mannerheimi (Sahlberg), 1, base camp

Calathus ingratus Dejean, 12, site 1, base camp, birch point,
creekside
Sericoda obsoleta Say, 4, base camp
Agonum quinequepunctatum Mots. 18, sand point, base camp,
creekside, site 1
A. retractum LeConte, 8, creekside, birch point, base camp,
mouth Wentzel River
A. lutulentum (LeConte), 1, birch point
A. sordens Kirby, 1, creekside
Platynus mannerheimii (Dejean), 1, creekside

Family Gyrinidae

Gyrinus sp., 1, 8, south beach
Gyrinus sp., 2, 4, south beach
Gyrinus sp., 3, 1, base camp

Family Dytiscidae (25 species)

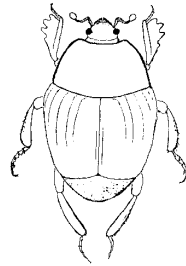
Laccophilis biguttatus Kirby, 2, site 1, mouth of Wentzel
River
Hygrotus sayi Balfour-Browne, 1, site 1
H. picatus Kirby, 1, mouth of Wentzel River
Hydroporus morio Aube, 13, east of Horseshoe Lake
H. rectus? Fall, 1, mouth of Wentzel River
H. fuscipennis Schaum, 4, mouth of Wentzel River
H. tenebrosus LeConte, 5, mouth of Wentzel River, site 1
H. notabilis, LeConte, 9, base camp
Stictotarsus griseostriatus (DeGeer), 9, Horseshoe Lake
Oreodytes laevis (Kirby), 2, base camp, open muskeg
Laccornis conoideus (LeConte), 5, mouth of Wentzel River
Agabus semipunctatus? (Kirby), 1, mouth of Wentzel River
A. audeni Wallis, 1, mouth of Wentzel River
A. bicolor (Kirby), 3, site 1, creekside
A. anthracinus Mannerheim, 1, site 1
A. ajax, Fall, 1, south beach
A. antennatus Leech, 6, site 1
A. arcticus (Paykull), 8, site 1, Horseshoe Lake
Ilybius pleuriticus (LeConte), 3, site 1
I. augustior (Gyllenhal), 8, mouth of Wentzel River, upper
Wentzel River, site 1, base camp
Colymbetes dahuricus Aube, 1, site 1
C. dolabratus (Paykull), 1, Horseshoe Lake
C. sculptilis Harris, 2, open muskeg
Dytiscus circumcinctus Ahrens, 2, base camp, site 1
Graphaderus perplexus Sharp, 6, site 1

Family Hydrophilidae

Enochrus sp., 1, Horseshoe Lake
Hydrobius fuscipes Linne, 1, upper Wentzel River

Family Histeridae

Hypocaccus fraternus Say, 3, base camp, sand point



Hister sp.

Family Ptiliidae

Acrotrichis sp., 16, creekside, fish camp; *ex* moose dung

Family Leiodidae (includes Leptodiridae)

Lieodes sp., 1, base camp

3+ spp, 66, sand point, base camp, lake out flow, birch point,
site 1, upper Wentzel River

Colon magnicolle Mannerheim, 2, south beach, site 1

Catops simplex Say, 4, open muskeg, base camp

Family Silphidae

Nicrophorus defodiens Mannerheim, 7, base camp, open
muskeg

Thanatophilus sagax (Mannerheim), 3, base camp

Family Staphylinidae (includes Pselaphidae, Scaphididae, 59 species)

Megarthus sinuaticollis Boisduval & Lacordaire, 1, base
camp

Eusphalerum grayae Hatch, 5, Horseshoe Lake

Omalium forminosum Maklin, 7, fish camp, site 1, base camp

Olophrum rotundicolle, Sahlberg, 8, south beach, sand point,
base camp, creekside

O. boreale (Paykull), 1, site 1

Eucnesum brunnescens (Sahlberg), 5, base camp, creekside

Eucnesum sp., 5, base camp, sand point

Olisthaerus? sp., 1, base camp

Bledius sp., 1, 2 south beach

Bledius sp., 2, 2, site 1

Oxytelus fuscipennis Mannerheim, 2, fish camp

Tachinus frigidus Erichson, 38, open muskeg, base camp

T. elongatus Gyllenhal, 24, sand point, base camp, creekside,
south beach, birch point

T. basalis Erichson, 2, open muskeg

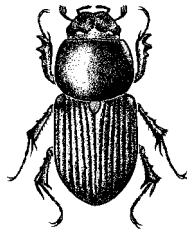
Tachyporus borealis Campbell, 2, site 1, base camp

Lordithon thoracicus thoracicus (Fabricius), 9, base camp,
birch point

Byroporus rufescens? LeConte, 7, sand point, base camp
Myctoporus rugosus Hatch, 9, birch point, base camp,
 creekside
Myctoporus nr., *nidicola*, 4, base camp, birch point
Myctoporus sp., 1, site 1
Ischnosoma fimbriatum Campbell, 11, birch point, creekside,
 base camp
Ischnosoma sp. nr. *fimbriatum*, 2, base camp, creekside
Aleochara castaneipennis? Mannerheim, 16, sand point, south
 beach, base camp
 subfamily Aleocharinae, 14+ spp, 45, all areas
Oxyporus occipitalis Fauvel, 2, base camp
Stenus 9 spp., 19, Horseshoe Lake, site 1, south beach,
 creekside, birch point, lake outflow, upper Wentzel
 River
Lathrobium sp., 3, creekside, site 1, base camp
Paederus littorarius Gravenhorst, 5, base camp, creekside
Philonthus cyanipennis (Fabricius), 3, base camp
Gabrius sp., 10, base camp, sand point, upper Wentzel River
Staphylinus capitatus Bland, 1, open muskeg
Tympanophorus puncticollis (Erichson), 1, sand point
Quedius brunipennis Mannerheim, 20, birch point, base camp
Q. caseyi Scheerp. 11, base camp, birch point, site 1
Q. simulator Smetana, 7, birch point, base camp
Q. fellmani (Zetterstedt), 10, base camp, creekside
Pselaphus bellax Casey, 1, base camp
Scaphium castanipes Kirby, 33, sand point, Horseshoe Lake,
 base camp

Family Scarabaeidae

Aegialia lacustris LeConte, 6, site 1, base camp, fish camp
Aphodius omissus omissus LeConte, 1, upper Wentzel River
A. leopardus Horn, 6, base camp, open muskeg



dung beetle, *Aphodius* sp.,
 adapted from Hatch (1971)

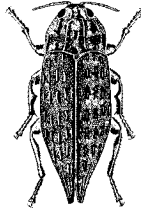
Family Eucinetidae

Eucinetus terminalis LeConte, 2, base camp, open muskeg

Family Scirtidae (=Helodidae)

Cyphon variabilis (Thunberg), 15, Horseshoe Lake, base
 camp, sand point, birch point, creekside

Family Buprestidae



buprestid, *Dicerca tenebrosa*,
Borror *et. al.* 1981 (original Knull)

Melanophila fulvoguttata (Harris), 3, base camp
Oxypteris accuminata (DeGeer), 4, base camp
Chrysobothris trinervia (Kirby), 2, base camp
Anthaxia inornata (Randall), 1, creekside

Family Byrrhidae

Byrrhus americanus LeConte, 4, birch point, base camp
Cytilus alternatus Say, 13, Sand point, birch point, Horseshoe
Lake, mouth of Wentzel River, base camp
Simplocaria metallica (Strum), 1, creekside
Curimopsis moosilauke Johnson, 4, base camp

Family Elateridae (16 species)

Danosoma brevicorne (LeConte), 1, sand point
D. obtectum (Say), 2, base camp, birch point
Limonus aeger LeConte, 2, sand point
Denticollis denticornis (Kirby), 2, sand point
Hypnoidus bicolor (Esch.), 12, base camp
Ctenicaera nitidulula LeConte, 18, sand point, base camp,
birch point, east of outlet



click beetle, *Ctenicera* sp., Hatch (1971)

C. propola propola (LeConte), 4, sand point, birch point,
south beach
C. kendalli Kirby, 2, base camp
C. triundulata (Randall), 2, birch point, Horseshoe Lake
Eanus estriatus (LeConte), 3, base camp, sand point
E. decoratus (Mannerheim), 34, sand point, Horseshoe Lake,
creekside, base camp, south beach
Sericus incongruus (LeConte), 3, base camp, south beach,
Ampedus pullus Germar, 3, sand point, upper Wentzel River
A. nigrinus (Herbst), 15, birch point, sand point, Horseshoe
Lake, base camp, east of outlet

A. apicatus Say, 2, sand point, birch point
A. sanguinipennis (Say), 46, fish camp, sand point, Horseshoe Lake, south beach

Family Lycidae

Dictyopterus auroa (Herbst), 2, Horseshoe Lake, base camp
D. thoracicus (Randall), 4, sand point, lake out flow
Plateros lictor (Newman), 21, Horseshoe Lake, sand point, south beach

Family Lampyridae

Practomena borealis (Randall), 16, sand point, base camp
P. linearis LeConte, 1, sand point
Ellychina corruga (Linne), 14, site 1, creekside, birch point, base camp, sand point

Family Cantharidae

Podabrus extremus LeConte, 13, base camp, lake outlet, east of Horseshoe Lake, south beach
Podabrus sp., 1, 2, sand point
Podabrus sp., 2, 8, sand point
Podabrus sp., 3, 5, sand point, east of outlet, Horseshoe Lake
Podabrus sp., 4, 2, creekside
Podabrus sp., 5, 9, sand point, base camp, creekside, upper Wentzel River, Horseshoe Lake
Podabrus sp., 6, 22, base camp, lake outlet, creekside, Horseshoe Lake
Podabrus sp., 7, 5, Fish and Wildlife cabin, base camp, birch point
Podabrus sp., 8, 16, base camp, birch point, Horseshoe Lake, sand point, creekside
Cantharis curtisi (Kirby), 4, site 1, base camp
Silis difficilis LeConte, 3, birch point, mouth of Wentzel River

Family Anobiidae

Utobium granulatum White, 1, sand point
U. elegans (Horn), 1, sand point
Ernobius sp., 3, sand point
Hemicoelus carinatus (Say), 1, sand point
Ptilinus lobatus Casey, 1, mouth of Wentzel River
Caenocara scymnoides LeConte, 2, site 1, base camp

Family Trogossitidae (= Ostomidae)

Ostoma columbiana Casey, 1, base camp
Calitys scabra (Thunberg), 1, base camp

Family Melyridae

Hoppingiana hudsonica (LeConte), 7, base camp, lake
outflow, sand point, Horseshoe Lake, east of outlet
Attalus nigrellus (LeConte), 8, sand point

Family Nitidulidae

Eupurae linearis Maklin, 1, base camp
Meligethes canadensis Easton, 2, site 1

Family Sylvanidae

Pediacus depressus Herbst, 1, base camp

Family Phalacridae

Phalacrus sp., 4, south beach, sand point, lake outflow

Family Cryptophagidae

Cryptophagus cellaris (Scopoli), 48, site 1, base camp, open
muskeg, birch point, creekside
Atomaria ochracea Zimmermann, 2, site 1, creekside
A. ephippiata Zimmermann, 2, site 1, base camp
Atomaria sp., 1, base camp

Family Erotylidae

Triplax thoracia (Say), 6, base camp

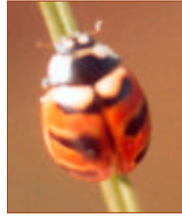
Family Byturidae

Byturis unicolor Say, 2, sand point

Family Coccinellidae (14 species)

Didion longulum Casey, 1, base camp
Hyperaspis disconotata Mulsant, 1, base camp
Brumoides septentrionis septentrionis Weise, 2, south beach,
base camp.
Anisoticta bitriangularis (Say), 32, Horseshoe Lake, mouth
Wentzel River, base camp, lake outlet, sand point,
birch point, upper Wentzel River, south beach
Macronaemia episcopalis (Kirby), 5, base camp, upper
Wentzel River, mouth Wentzel River
Hippodamia moesta bowditchi Johnson, 9, lake outlet, sand
point, south beach
Anatis mali (Say), 20, sand point
Myza pullata (Say), 2, base camp, south beach
Clavia quatuordecimguttata (Linne.), 5, east of outlet, south
beach
Adalia bipunctata (Linne), 18, east of outlet, sand point, base
camp, south beach, upper Wentzel River

Coccinella trifaciata perplexa Mulsant, 8, sand point, mouth of Wentzel River



Coccinella trifaciata
Near outlet of Wentzel Lake.

6539200 N 643700 E
10 July 2003, G.J. Hilchie

C. septempunctata (Linne), 5, base camp, sand point, east of outlet

Mulsantina hudsonica (Casey), 8, south beach, sand point, birch point, east of outlet, base camp

Psyllobora vigintimaculata (Say), 1, sand point

Family Latridiidae

Corticaria sp., 2, sand point, base camp

Melanophthalma americana (Mannerheim), 1, site 1

Family Salpingidae

Sphaeriestes virescens (LeConte), 2, base camp, south beach

Family Melandryidae

Xylita laevigata (Hellenius), 1, sand point

X. livida Sahlberg, 1, base camp

Family Mordellidae

Tomoxia borealis (LeConte), 5, south beach, lake outflow

Mordellistena sp., 2, base camp

Family Tenebrionidae

Scaphidema aeneolum LeConte, 19, east of outlet, site 1, Horseshoe Lake, sand point, base camp

Upis ceramboides (Linne), 3, base camp

Family Boriedae

Lecontia discollis (LeConte), 1, fish camp

Family Pythidae

Pytho niger Kirby, 1, birch point

Family Anthicidae

Anthicus scabriceps LeConte, 3, base camp, south beach

A. coracinus LeConte, 2, base camp

A. nigritus Mannerheim, 5, sand point **a northern creature

A. haldermani LeConte, 1, base camp

Family Scrautiidae

Anaspis atrata? Champion, 4, sand point, Horseshoe Lake

Family Cerambycidae (11 species)

Arhopalus fovicollis (Haldeman), 10, base camp

Asemum striatum (Linne), 13, base camp, Horseshoe Lake, creekside

Pronocera collaris collaris (Kirby), 1, base camp

Xylotrechus longitrsus Casey, 7, base camp, upper Wentzel River, open muskeg

Pachyta lamed liturata Kirby, 3, base camp, open muskeg

Rhagium inquisitor (Linne), 4, base camp

Acmaeops proteus proteus (Kirby), 29, base camp, sand point, fish camp

Trachysida mutabilis (Newman), 3, sand point, base camp, mouth of Wentzel River

Monochamus scutellatus scutellatus (Say), 13, base camp, site 1, sand point, creekside

Pogonocherus mixtus Haldeman, 2, sand point, east of outlet

Saperda calcarata Say, 3, open muskeg

Family Orsodacnidae (Chrysomelidae in part)

Orasadacne atra Ahrens, 34, sand point, east of outlet, Horseshoe Lake, south beach, base camp

Family Chrysomelidae (29 species)

Plateumaris germari (Mannerheim), 26, Horseshoe Lake, south beach, base camp, Osprey Bay, lake outflow

Donacia hirticollis Kirby, 1, base camp

Zeugophora abnormis (LeConte), 6, sand point, lake outflow

Bromius obscurus (Linne), 8, sand point, south beach

Phaedon laevigatus (Duftschmid), 32, south beach, sand point, base camp

P. oviformis (LeConte), 1, upper Wentzel River

P. armoraciae (Linne), 4, sand point, Osprey Bay, creekside

P. prasinellus (LeConte), 2 open muskeg, base camp

Hydrothassa boreala Schaffer, 6, base camp

Prascocuris phellandrii (Linne), 2, base camp, Horseshoe Lake

Chrysomela mainensis mainensis Bechyne, 20, base camp, south beach, sand point, horsetail meadow, east of outlet

C. crotchi Brown, 6, birch point, south beach, mouth of Wentzel River

C. knabi Brown, 2, sand point

Gonioctena americana (Schaeffer), 34, sand point, base camp

Phratora pupurea pupurea Brown, 17, birch point, base camp, lake outflow, sand point, south beach

P. hudsonia Brown, 26, birch point, base camp, sand point,
south beach, fish camp, Horseshoe Lake
Galuerucella nymphaeae (Linne), 3, birch point, fish camp,
sand point
Tricholochmaea decora carbo (LeConte), 6, south beach, base
camp, sand point
Phyllotreta striolata (Fabricius), 51, creekside, base camp,
south beach off winter cress, upper Wentzel River
off winter cress
P. cruciferae (Goeze), 8, south beach off winter cress, upper
Wentzel River off winter cress



leaf beetle, *Phyllotreta* sp., source not known.

Longitarsus erro Horn, 5, site 1, base camp
Altica tombacini (Mannerheim), 3, base camp
A. ambiens LeConte, 1, base camp
Hippuriphila mancula (LeConte), 10, site 1, birch point,
horsetail meadow
Crepidodera digna Parry, 7, base camp, creekside
Mantura floridana Crotch, 3, base camp
Chaetocnema protensa LeConte, 2, base camp
Kuschelina vians (Illiger), 1, sand point
Disonycha triangularis Say, 2 sand point

Family Anthribidae

Trigonorhinus alternatus (Say), 2, upper Wentzel River

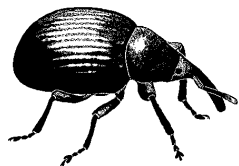
Family Attelabidae (Curculionidae in part)

Temnocerus cyanellus (LeConte), 1, sand point

Family Brentidae (Apionidae/Curculionidae)

Perapion punctinasum (Smith), 2, base camp, upper Wentzel
River

Trichapion simile (Kirby), 6, base camp, site 1, sand point



weevil, *Apion* sp., drawn from photograph

Family Curculionidae (22 species, includes Scolytidae)

Sitona cylindricollis (Fahraeus), 1, base camp

S. scissifrons Say, 1, site 1

S. lepidus Gyllenhal, 2, base, creekside
Lepyrus nordenskiöldi canadensis Casey, 2, base camp,
 south beach
L. gemellus gemellus Kirby, 3, base camp, open muskeg
Hylobius pinicola (Couper), 2, base camp
Pissodes affinis Randall, 1, base camp
Dorytomus imbecillus Faust, 1, sand point
Grypus equiseti (Fabricius), 3, site 1, base camp
Notarius puncticollis (LeConte), 3, site 1
Magdalis gentilis LeConte, 6, south beach, lake outlet, site 1,
 sand point, base camp
Isochnus rufipes (LeConte), 5, base camp, sand point
Ceutorhynchus neglectus Blatchly, 16, upper Wentzel River,
 south beach
C. punctiger Gyllenhal, 1, sand point
C. oregonensis Dietz, 18, south beach
Phytobius leucogaster (Marsham), 1, south beach
Pelenomus ventralis (Sleeper), 1, site 1
Rhyncolus brunneus Mannerheim, 1, Horseshoe Lake
 (=Scolytinae)
Dryocetes affaber (Mannerheim), 1, birch point
D. autographus (Ratzeburg), 3, base camp, site 1
Polygraphus rufipennis (Kirby), 3, sand point, Horseshoe
 Lake, site 1
Ips perturbatus (Eichhoff), 4, sand point

(Expected Families: Haliplidae, Lucanidae, Heteroceridae, Dermestidae, Cleridae, Cucujidae, Ciidae, Cephaloidea, Elmidae, Eucnemidae, Melyridae, Meloidae, Mycetophagidae, Orthoperidae, Pedilidae, Pyrochroidae)

4. Discussion

The Caribou Mountains offers an interesting glimpse into the biota of Alberta. The position of the plateau, being located in northern Alberta would imply a strong affinity to regions farther north, yet in Rowe's (1972) plant classification he clearly allies the plants with the mountain foothill zone. The beetle species examined clearly demonstrate a very strong boreal composition (most species), but there are also elements of more northern regions and elements that are clearly cordilleran. Most collections of beetles were restricted to areas accessible from lake or river channels, and resulted in a collecting bias to warmer more temperate boreal type sites, missing cooler more arctic highlands.

One beetle of particular note is the ground beetle, *Trichocellus mannerheimi*, a northern arctic/boreal species. This is a **first Alberta record**. A click beetle, *Eanus estriatus*, is represented by few Alberta records, mostly northern.

Another ground beetle, *Elaphrus lapponicus*, is clearly cordilleran. This species is typically found along streams in the cooler subalpine zone. This species has been collected before in the Caribou Mountains, and clearly represents an outlier population.

A few agriculture pests and introduced species showed up in the survey. The flea beetles *Phyllotreta striolata* (introduced) and *P. cruciferae* (introduced) were found feeding on American Winter Cress (*Barbarea orthoceras* Ledeb.), along with *Ceutorhynchus neglectus* (a native weevil) and *Phaedon laevigatus* (a native leaf beetle). Introduced ladybird beetles *Coccinella septempunctata* and *Adalia bipunctata* were picked up in the wash up along several of the beaches.

In Canada, we are at the early stages of determining what insects occur in the region. Populated areas historically have been better sampled. Any and all material resulting from this study adds to our knowledge of insect distributions.

5. Acknowledgements

I wish to thank Parks and Protected Areas Division, Alberta Community Development for logistical support and the invitation to participate in the biological inventory of the new Caribou Mountains Wildland Provincial Park.

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Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera												
FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
Carabidae (48 species)												
1	Cicindela	duodecimguttata	Dejean	3	Wentzel Lake	south beach	6540600 N 0647700 E		beach	8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cicindela	duodecimguttata	Dejean	1	Wentzel Lake	south beach	6540600 N 0647700 E	pan traps	beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cicindela	duodecimguttata	Dejean	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Carabus	chamissonis	Fisher	3	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
	Carabus	chamissonis	Fisher	1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Carabus	chamissonis	Fisher	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
3	Carabus	taedatus	Fabricius	3	Wentzel Lake	south beach	6540600 N 0647700 E	pit traps	beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Carabus	taedatus	Fabricius	2	Wentzel Lake	south beach	6540600 N 0647700 E	pan traps	beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Carabus	taedatus	Fabricius	1	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
	Carabus	taedatus	Fabricius	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Carabus	taedatus	Fabricius	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Carabus	taedatus	Fabricius	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Carabus	taedatus	Fabricius	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Carabus	taedatus	Fabricius	1	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie
	Carabus	taedatus	Fabricius	5	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Carabus	taedatus	Fabricius	1	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
4	Pelophila	borealis	(Paykull)	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Pelophila	borealis	(Paykull)	5	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
5	Nebria	gylenhali castanipes	Kirby	45	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Nebria	gylenhali castanipes	Kirby	56	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Nebria	gylenhali castanipes	Kirby	10	Wentzel Lake	F & W cabin	6544000 N 0647900 E	hand	beach rocks	8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Nebria	gylenhali castanipes	Kirby	13	Wentzel Lake	south beach	6540600 N 0647700 E	pit traps	along beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Nebria	gylenhali castanipes	Kirby	2	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie
	Nebria	gylenhali castanipes	Kirby	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
	Nebria	gylenhali castanipes	Kirby	1	Wentzel Lake		6550410 N 0645690 E	pan traps	birch, spruce	18 July, 2003	T. Johnson	G. J. Hilchie
	Nebria	gylenhali castanipes	Kirby	1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
6	Notiophilus	semistriatus	Say	1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
7	Notiophilus	borealis	Harris	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Notiophilus	borealis	Harris	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Notiophilus	borealis	Harris	1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Notiophilus	borealis	Harris	2	Wentzel Lake		6550410 N 0645690 E	pan traps	birch, spruce	18 July, 2003	T. Johnson	G. J. Hilchie
	Notiophilus	borealis	Harris	3	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
8	Loricera	pilicornis	(Fabricius)	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
	Loricera	pilicornis	(Fabricius)	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
9	Elaphrus	clairvillei	Kirby	3	Wentzel River		6549960 N 0647470 E	pan traps	creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
	Elaphrus	clairvillei	Kirby	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Elaphrus	clairvillei	Kirby	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
10	Elaphrus	lapponicus	Gyllenhal	2	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
11	Elaphrus	americanus	Dejean	4	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Elaphrus	americanus	Dejean	1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Elaphrus	americanus	Dejean	1	Wentzel River	site 1	6554700 N 0643500 E	sweeping	river shore	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Elaphrus	americanus	Dejean	2	Wentzel River	site 1	6554700 N 0643500 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
12	Elaphrus	californicus	Mannerheim	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Elaphrus	californicus	Mannerheim	1	Wentzel Lake	south beach	6540600 N 0647700 E	pit traps	along beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Elaphrus	californicus	Mannerheim	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
13	Elaphrus	purpurans	Hausen	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
14	Dyschirius	nigricornis	Motschulsky	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Dyschirius	nigricornis	Motschulsky	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Dyschirius	nigricornis	Motschulsky	1	Wentzel Lake		6550220 N 0647930 E	east of creek	poplar, willow, grass	14 July, 2003	T. Johnson	G. J. Hilchie
15	Miscodera	arctica	(Paykull)	1	Wentzel Lake	base camp	6549500 N 0647400 E	pan traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Miscodera	arctica	(Paykull)	1	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
	Miscodera	arctica	(Paykull)	1	Wentzel Lake	south beach	6540600 N 0647700 E	pan traps	upper beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
16	Trechus	apicalis	Motschulsky	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Trechus	apicalis	Motschulsky	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
17	Bembidion	carinula	Chaudoir	17	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Bembidion	carinula	Chaudoir	1	Wentzel Lake	fish camp	6547500 N 0642300 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Bembidion	carinula	Chaudoir	1	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie
	Bembidion	carinula	Chaudoir	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera	FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
		Bembidion	carinula	Chaudoir	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	carinula	Chaudoir	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	carinula	Chaudoir	1	Wentzel River	site 1	6554700 N 0643500 E	sweeping	river shore	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	carinula	Chaudoir	12	Wentzel Lake	south beach	6540600 N 0647700 E	pit traps	along beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	carinula	Chaudoir	1	Wentzel Lake	south beach	6540600 N 0647700 E	beach		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	carinula	Chaudoir	1	Wentzel Lake	south beach	6540600 N 0647700 E	beach	drift line	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
18		Bembidion	sordidum	Kirby	11	Wentzel Lake	south beach	6540600 N 0647700 E	pit traps	along beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	sordidum	Kirby	20	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	sordidum	Kirby	2	Wentzel River	site 1	6554700 N 0643500 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	sordidum	Kirby	2	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	sordidum	Kirby	3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	sordidum	Kirby	7	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	sordidum	Kirby	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
19		Bembidion	nigripes	Kirby	10	Wentzel River	site 1	6554700 N 0643500 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	nigripes	Kirby	6	Wentzel River	site 1	6554700 N 0643500 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	nigripes	Kirby	1	Wentzel River	site 1	6554700 N 0643500 E	sweeping	near shore	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	nigripes	Kirby	3	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	nigripes	Kirby	2	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
20		Bembidion	levettei	Casey	2	Wentzel Lake	south beach	6540600 N 0647700 E	pit traps	along beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	levettei	Casey	1	Wentzel River	site 1	6554700 N 0643500 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	levettei	Casey	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
21		Bembidion	mutatum	Gem. & Harold	2	Wentzel River	site 1	6554700 N 0643500 E	pan traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	mutatum	Gem. & Harold	2	Wentzel River	site 1	6554700 N 0643500 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
22		Bembidion	transparens	Gebler	3	Wentzel River		6549960 N 0647470 E	hand	creek side	7 July, 2003	T. Johnson	G. J. Hilchie
		Bembidion	transparens	Gebler	1	Wentzel River		6549960 N 0647470 E	pan traps	creek bank	17 July, 2003	T. Johnson	G. J. Hilchie
		Bembidion	transparens	Gebler	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
23		Bembidion	canadianum	Casey	1	Wentzel River		6549960 N 0647470 E	hand	creek side	7 July, 2003	T. Johnson	G. J. Hilchie
24		Bembidion	versicolor	LeConte	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
25		Bembidion	morulum	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G.E. Ball
26		Bembidion	incretatum	LeConte	1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	incretatum	LeConte	2	Wentzel River	site 1	6554700 N 0643500 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bembidion	incretatum	LeConte	1	Wentzel River	site 1	6554700 N 0643500 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
27		Tachys	nana inornata	Say	1	Wentzel Lake	south beach	6540600 N 0647700 E	sweeping		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
28		Patrobus	stygius	Chaudoir	5	Wentzel River		6549960 N 0647470 E	hand	creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
		Patrobus	stygius	Chaudoir	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
		Patrobus	stygius	Chaudoir	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Patrobus	stygius	Chaudoir	1	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
29		Stereocerus	haematopus	(Dejean)	18	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	9	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	3	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	3	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	1	Wentzel Lake	south beach	6540600 N 0647700 E	pan traps	upper beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	1	Wentzel Lake	fish camp	6547500 N 0642300 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	2	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	T. Johnson	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	1	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	1	Wentzel Lake		6549960 N 0647470 E	pan traps	grassy creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Stereocerus	haematopus	(Dejean)	1	Wentzel River		6556800 N 0642600 E	general	sedge meadow	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
30		Pterostichus	adstrictus	Eschscholtz	1	Wentzel River	site 1	6554700 N 0643500 E	pan traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
31		Pterostichus	chipewyan	Ball	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G.E. Ball
		Pterostichus	chipewyan	Ball	2	Wentzel River	site 1	6554700 N 0643500 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G.E. Ball
		Pterostichus	chipewyan	Ball	1	Wentzel Lake	south beach	6540600 N 0647700 E	pan traps	upper beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G.E. Ball
32		Pterostichus	punctatissimus	Fischer	3	Wentzel Lake	base camp	6549500 N 0647400 E	mouse traps	wet muskeg	18 July, 2003	D. Vujnovic	G. J. Hilchie
		Pterostichus	punctatissimus	Fischer	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Pterostichus	punctatissimus	Fischer	5	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Pterostichus	punctatissimus	Fischer	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Pterostichus	punctatissimus	Fischer	2	Wentzel Lake	south beach	6540600 N 0647700 E	pit traps	along beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera	FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
		Pterostichus	punctatissimus	Fischer	1	Wentzel Lake	south beach	6540600 N 0647700 E	pan traps	upper beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Pterostichus	punctatissimus	Fischer	1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
33		Amara	pseudobrunnea	Lindroth	4	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Amara	pseudobrunnea	Lindroth	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Amara	pseudobrunnea	Lindroth	1	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie
34		Amara	hyperborea	Dejean	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Amara	hyperborea	Dejean	1	Wentzel Lake	south beach	6540600 N 0647700 E	pit traps	along beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
35		Amara	laevipennis	Kirby	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G.E. Ball
36		Harpalus	innocuus	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
37		Harpalus	fulvilabris	Mannerheim	1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
38		Harpalus	ochropus	Kirby	1	Wentzel Lake	south beach	6540600 N 0647700 E		beach	8 July, 2003	G.J. Hilchie, J.S. Hilchie	G.E. Ball
39		Bradycellus	lugubris	LeConte	1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
40		Bradycellus	lecontei	Csiki	1	Wentzel Lake	east of outflow	6539200 N 0654470 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Bradycellus	lecontei	Csiki	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
41		Trichocellus	mannerheimi	(Sahlberg)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
42		Calathus	ingratus	Dejean	1	Wentzel Lake	base camp	6549960 N 0647470 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
		Calathus	ingratus	Dejean	1	Wentzel Lake		6550410 N 0645690 E	pan traps	birch, spruce	18 July, 2003	T. Johnson	G. J. Hilchie
		Calathus	ingratus	Dejean	1	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie
		Calathus	ingratus	Dejean	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Calathus	ingratus	Dejean	1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
		Calathus	ingratus	Dejean	2	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
		Calathus	ingratus	Dejean	1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Calathus	ingratus	Dejean	1	Wentzel River	site 1	6554700 N 0643500 E	pan traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Calathus	ingratus	Dejean	3	Wentzel River	site 1	6554700 N 0643500 E	pan traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
43		Sericoda	obsoleta	Say	4	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
44		Agonum	quinequepunctatum	Mots.	11	Wentzel Lake	base camp	6549500 N 0647400 E	mouse traps		18 July, 2003	D. Vujnovic	G. J. Hilchie
		Agonum	quinequepunctatum	Mots.	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6-8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Agonum	quinequepunctatum	Mots.	2	Wentzel River		6549960 N 0647470 E	pan traps	creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
		Agonum	quinequepunctatum	Mots.	1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Agonum	quinequepunctatum	Mots.	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	spruce bog	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Agonum	quinequepunctatum	Mots.	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
45		Agonum	retractum	LeConte	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Agonum	retractum	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6-8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Agonum	retractum	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Agonum	retractum	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
		Agonum	retractum	LeConte	1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Agonum	retractum	LeConte	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
		Agonum	retractum	LeConte	1	Wentzel Lake		6550220 N 0647930 E	east of creek	poplar, willow, grass	14 July, 2003	T. Johnson	G. J. Hilchie
46		Agonum	lutulentum	(LeConte)	1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
47		Agonum	sordens	Kirby	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
48		Platynus	mannerheimii	(Dejean)	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	17 July, 2003	T. Johnson	G. J. Hilchie
Gyrinidae													
1		Gyrinus	sp. 1		8	Wentzel Lake	south beach	6540600 N 0647700 E	stream margin	sedges	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2		Gyrinus	sp. 2		4	Wentzel Lake	south beach	6540600 N 0647700 E	stream margin	sedges	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
3		Gyrinus	sp. 3		1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Dytiscidae (25 species)													
1		Laccophilis	biguttatus	Kirby	1	Wentzel River	site 1	6554700 N 0643500 E	in river		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Laccophilis	biguttatus	Kirby	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2		Hygrotus	sayi	Balfour-Browne	1	Wentzel River	site 1	6554700 N 0643500 E	beaver pond		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
3		Hygrotus	picatus	Kirby	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
4		Hydroporus	morio	Aube	13	Horseshoe Lake	east of	6590800 N 0572500 E	general	trail to pattern fen	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
5		Hydroporus	rectus?	Fall	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
6		Hydroporus	fuscipennis	Schaum	4	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
7		Hydroporus	tenebrosus	LeConte	3	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		Hydroporus	tenebrosus	LeConte	2	Wentzel Lake	site 1	6554700 N 0643500 E	beaver pond		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
8		Hydroporus	notabilis	LeConte	9	Wentzel Lake	base camp	6549500 N 0647400 E	general	shoreline	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
9		Stictotarsus	griseostriatus	(DeGeer)	9	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
10		Oreodytes	laevis	(Kirby)	1	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
		Oreodytes	laevis	(Kirby)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
11		Laccornis	conoideus	(LeConte)	5	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera												
FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
12	Agabus	semipunctatus?	(Kirby)	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
13	Agabus	audeni	Wallis	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
14	Agabus	bicolor	(Kirby)	2	Wentzel River	site 1	6554700 N 0643500 E	beaver pond		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Agabus	bicolor	(Kirby)	1	Wentzel River		6549960 N 0647470 E	pan traps	creek bank	17 July, 2003	T. Johnson	G. J. Hilchie
15	Agabus	anthracinus	Mannerheim	1	Wentzel River	site 1	6554700 N 0643500 E	beaver pond		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
16	Agabus	ajax	Fall	1	Wentzel Lake	south beach	6540600 N 0647700 E	stream margin		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
17	Agabus	antennatus	Leech	5	Wentzel River	site 1	6554700 N 0643500 E	beaver pond		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Agabus	antennatus	Leech	1	Wentzel Lake	outlet	6539200 N 0643700 E	east bank	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
18	Agabus	arcticus	(Paykull)	2	Wentzel River	site 1	6554700 N 0643500 E	beaver pond		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Agabus	arcticus	(Paykull)	6	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
19	Ilybius	pleuriticus	(LeConte)	3	Wentzel River	site 1	6554700 N 0643500 E	in river		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
20	Ilybius	augustior	(Gyllenhal)	1	Wentzel Lake	south beach	6540600 N 0647700 E	stream margin		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ilybius	augustior	(Gyllenhal)	1	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
	Ilybius	augustior	(Gyllenhal)	1	Wentzel River	site 1	6554700 N 0643500 E	beaver pond		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ilybius	augustior	(Gyllenhal)	4	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ilybius	augustior	(Gyllenhal)	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
21	Colymbetes	dahuricus	Aube	1	Wentzel River	site 1	6554700 N 0643500 E	beaver pond		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
22	Colymbetes	dolabratus	(Paykull)	1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
23	Colymbetes	sculptilis	Harris	2	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
24	Dytiscus	circumcinctus	Ahrens	1	Wentzel River	site 1	6554700 N 0643500 E	beaver pond		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Dytiscus	circumcinctus	Ahrens	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		15 July, 2003	T. Johnson	G. J. Hilchie
25	Graphaderus	perplexus	Sharp	6	Wentzel River	site 1	6554700 N 0643500 E	beaver pond		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Hydrophilidae												
1	Enochrus	sp.		1	Horseshoe Lake	east of	6590800 N 0572500 E	general	trail to pattern fen	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Hydrobius	fuscipes	Linne	1	Wentzel River		6556800 N 0642600 E	general	sedge meadow	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Histeridae												
1	Hypocaccus	fraternus	Say	2	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hypocaccus	fraternus	Say	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Ptiliidae												
1	Acrotichis	sp.		12	Wentzel Lake		6550220 N 0647930 E	pantrap	east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
	Acrotichis	sp.		4	Wentzel Lake	fish camp	6547500 N 0642300 E	ex moose dung		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Leioididae (includes Leptodiridae)												
1	Lieodes	sp.		1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
2,3,4		3+ spp.		5	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
		3+ spp.		16	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		3+ spp.		12	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
		3+ spp.		6	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
		3+ spp.		1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		3+ spp.		1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		3+ spp.		5	Wentzel River	site 1	6554700 N 0643500 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		3+ spp.		1	Wentzel River	site 1	6554700 N 0643500 E	pan traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		3+ spp.		1	Wentzel River	site 1	6554700 N 0643500 E	pan traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		3+ spp.		10	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		3+ spp.		1	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		3+ spp.		1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		3+ spp.		2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		3+ spp.		2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
		3+ spp.		1	Wentzel Lake		6550410 N 0645690 E	pan traps	birch, spruce	18 July, 2003	T. Johnson	G. J. Hilchie
5	Colon	magnicolle	Mannerheim	1	Wentzel Lake	south beach	6540600 N 0647700 E	pan traps	upper beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Colon	magnicolle	Mannerheim	1	Wentzel River	site 1	6554700 N 0643500 E	pan traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
6	Catops	simplex	Say	1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Catops	simplex	Say	2	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
	Catops	simplex	Say	1	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera												
FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
Silphidae												
1	Nicrophorus	defodiens	Mannerheim	1	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
	Nicrophorus	defodiens	Mannerheim	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Nicrophorus	defodiens	Mannerheim	1	Wentzel Lake	base camp	6549500 N 0647400 E	bait trap	vole	10-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Nicrophorus	defodiens	Mannerheim	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		11 July, 2003		G. J. Hilchie
	Nicrophorus	defodiens	Mannerheim	3	Wentzel Lake		6549960 N 0647470 E	pan traps	grassy creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
2	Thanatophilus	sagax	(Mannerheim)	2	Wentzel Lake		6549960 N 0647470 E	pan traps	grassy creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
	Thanatophilus	sagax	(Mannerheim)	3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Staphylinidae (includes Pselaphidae, Scaphididae, 59 species)												
1	Megarthrus	sinuaticollis	Boisduval & Lacordare	1	Wentzel Lake	south beach	6540600 N 0647700 E	pit traps	along beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Eusphalerum	grayae	Hatch	5	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
3	Omalium	forinosum	Maklin	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Omalium	forinosum	Maklin	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Omalium	forinosum	Maklin	2	Wentzel Lake	fish camp	6547500 N 0642300 E	ex moose dung		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Omalium	forinosum	Maklin	1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Omalium	forinosum	Maklin	1	Wentzel River	site 1	6554700 N 0643500 E	pan traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
4	Olophrum	rotundicolle	Sahlberg	1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Olophrum	rotundicolle	Sahlberg	1	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
	Olophrum	rotundicolle	Sahlberg	3	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Olophrum	rotundicolle	Sahlberg	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Olophrum	rotundicolle	Sahlberg	1	Wentzel Lake	base camp	6549500 N 0647400 E	general	shoreline	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
5	Olophrum	boreale	(Paykull)	1	Wentzel River	site 1	6554700 N 0643500 E	beaver pond		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
6	Eucnesum	brunnescens	(Sahlberg)	1	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
	Eucnesum	brunnescens	(Sahlberg)	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Eucnesum	brunnescens	(Sahlberg)	3	Wentzel River		6549960 N 0647470 E	hand	creek side	7 July, 2003	T. Johnson	G. J. Hilchie
7	Eucnesum	sp.		1	Wentzel Lake	base camp	6549500 N 0647400 E	general	shoreline	13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Eucnesum	sp.		1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Eucnesum	sp.		3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
8	Olisthaerus?	sp.		1	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
9	Bledius	sp. 1		2	Wentzel Lake	south beach	6540600 N 0647700 E	pan traps	upper beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
10	Bledius	sp. 2		1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Bledius	sp. 2		1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
11	Oxytelus	fuscipennis	Mannerheim	2	Wentzel Lake	fish camp	6547500 N 0642300 E	ex moose dung		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
12	Tachinus	frigidus	Erichson	14	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie
	Tachinus	frigidus	Erichson	12	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
	Tachinus	frigidus	Erichson	1	Wentzel Lake	birch point	6550200 N 0645800 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tachinus	frigidus	Erichson	2	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
	Tachinus	frigidus	Erichson	3	Wentzel Lake		6549470 N 0647180 E	pit traps	beach ridge to pine	10 June, 2003	T. Johnson	G. J. Hilchie
	Tachinus	frigidus	Erichson	1	Wentzel Lake		6550410 N 0645690 E	pan traps	birch, spruce	18 July, 2003	T. Johnson	G. J. Hilchie
	Tachinus	frigidus	Erichson	2	Wentzel Lake	base camp	6549500 N 0647400 E	pan traps	pine woods	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tachinus	frigidus	Erichson	2	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Tachinus	frigidus	Erichson	1	Wentzel Lake	fish camp	6547500 N 0642300 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
13	Tachinus	elongatus	Gyllenhal	7	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tachinus	elongatus	Gyllenhal	2	Wentzel Lake	south beach	6540600 N 0647700 E	pit traps	along beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tachinus	elongatus	Gyllenhal	2	Wentzel Lake	south beach	6540600 N 0647700 E	washup	beach	8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tachinus	elongatus	Gyllenhal	2	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tachinus	elongatus	Gyllenhal	1	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tachinus	elongatus	Gyllenhal	5	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tachinus	elongatus	Gyllenhal	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tachinus	elongatus	Gyllenhal	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tachinus	elongatus	Gyllenhal	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tachinus	elongatus	Gyllenhal	1	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
14	Tachinus	basalis	Erichson	1	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
	Tachinus	basalis	Erichson	1	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera												
FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
15	Tachyporus	borealis	Campbell	2	Wentzel River	site 1	6554700 N 0643500 E	pan traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tachyporus	borealis	Campbell	1	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
16	Lordithon	thoracicus thoracicus	(Fabricius)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Lordithon	thoracicus thoracicus	(Fabricius)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Lordithon	thoracicus thoracicus	(Fabricius)	2	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Lordithon	thoracicus thoracicus	(Fabricius)	1	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Lordithon	thoracicus thoracicus	(Fabricius)	1	Wentzel Lake	base camp	6549500 N 0647400 E	bait trap, carrion		10-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Lordithon	thoracicus thoracicus	(Fabricius)	1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Lordithon	thoracicus thoracicus	(Fabricius)	2	Wentzel Lake	base camp	6549500 N 0647400 E	ex mushroom		18 July, 2003	B. Richards	G. J. Hilchie
17	Byroporus	rufescens?	LeConte	4	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Byroporus	rufescens?	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Byroporus	rufescens?	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	pan traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Byroporus	rufescens?	LeConte	1	Wentzel River	site 1	6554700 N 0643500 E	pan traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
18	Myctoporus	rugosus	Hatch	3	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Myctoporus	rugosus	Hatch	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Myctoporus	rugosus	Hatch	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Myctoporus	rugosus	Hatch	1	Wentzel Lake		6550410 N 0645690 E	pan traps	birch, spruce	18 July, 2003	T. Johnson	G. J. Hilchie
	Myctoporus	rugosus	Hatch	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Myctoporus	rugosus	Hatch	1	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie
19	Myctoporus	nr. nidicola		1	Wentzel Lake		6550410 N 0645690 E	pan traps	birch, spruce	18 July, 2003	T. Johnson	G. J. Hilchie
	Myctoporus	nr. nidicola		1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Myctoporus	nr. nidicola		1	Wentzel River	site 1	6554700 N 0643500 E	pan traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Myctoporus	nr. nidicola		1	Wentzel Lake		6549960 N 0647470 E	pan traps	grassy creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
20	Myctoporus	sp.		1	Wentzel River	site 1	6554700 N 0643500 E	pan traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
21	Ischnosoma	fimbriatum	Campbell	5	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ischnosoma	fimbriatum	Campbell	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ischnosoma	fimbriatum	Campbell	1	Wentzel Lake		6549960 N 0647470 E	pan traps	grassy creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
	Ischnosoma	fimbriatum	Campbell	3	Wentzel River		6549960 N 0647470 E	hand	creek side	7 July, 2003	T. Johnson	G. J. Hilchie
22	Ischnosoma	sp. nr fimbriatum		1	Wentzel Lake		6549960 N 0647470 E	hand	along creek	7 July, 2003	T. Johnson	G. J. Hilchie
	Ischnosoma	sp. nr fimbriatum		1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
23	Aleochara	castaneipennis?	Mannerheim	13	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Aleochara	castaneipennis?	Mannerheim	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Aleochara	castaneipennis?	Mannerheim	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup	along beach	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
24	subfamily	Aleocharinae	sp. 1	4	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	subfamily	Aleocharinae	sp. 1	3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	subfamily	Aleocharinae	sp. 1	1	Wentzel Lake		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
25	subfamily	Aleocharinae	sp. 2	1	Wentzel Lake		6549960 N 0647470 E	hand	creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
26	subfamily	Aleocharinae	sp. 3	3	Wentzel Lake	base camp	6549500 N 0647400 E	ex fungi	Pleurotus ostreatus	8 July, 2003	D. Vujnovic	G. J. Hilchie
27	subfamily	Aleocharinae	sp. 4	1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	subfamily	Aleocharinae	sp. 4	3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	subfamily	Aleocharinae	sp. 4	1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	subfamily	Aleocharinae	sp. 4	1	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie
	subfamily	Aleocharinae	sp. 4	1	Wentzel Lake	base camp	6549500 N 0647400 E	pan traps	pine woods	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
28	subfamily	Aleocharinae	sp. 5	1	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
29	subfamily	Aleocharinae	sp. 6	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
30	subfamily	Aleocharinae	sp. 7	1	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
31	subfamily	Aleocharinae	sp. 8	1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
32	subfamily	Aleocharinae	sp. 9	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	subfamily	Aleocharinae	sp. 9	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	subfamily	Aleocharinae	sp. 9	3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
33	subfamily	Aleocharinae	sp. 10	1	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
34	subfamily	Aleocharinae	sp. 11	1	Wentzel Lake	fish camp	6547500 N 0642300 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
35	subfamily	Aleocharinae	sp. 12	12	Wentzel Lake	base camp	6549500 N 0647400 E	ex fungi	Pleurotus ostreatus	8 July, 2003	D. Vujnovic	G. J. Hilchie
36	subfamily	Aleocharinae	sp. 13	1	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
37	subfamily	Aleocharinae	sp.14	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
38	Oxyporus	occipitalis	Fauvel	2	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
39	Stenus	sp. 1		1	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Stenus	sp. 1		1	Wentzel River		6555700 N 0642700 E	sweeping	edge dry pond	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Stenus	sp. 1		1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera												
FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
40	Stenus	sp. 2		1	Wentzel Lake	south beach	6540600 N 0647700 E	sweeping	sedges	8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
41	Stenus	sp. 3		1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Stenus	sp. 3		1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
42	Stenus	sp. 4		1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Stenus	sp. 4		1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
43	Stenus	sp. 5		1	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Stenus	sp. 5		1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Stenus	sp. 5		1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
44	Stenus	sp. 6		1	Wentzel River	site 1	6554700 N 0643500 E	beaver pond	weeds	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
45	Stenus	sp. 7		1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
46	Stenus	sp. 8		1	Wentzel Lake	base camp	6549500 N 0647400 E	pan traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Stenus	sp. 8		2	Wentzel Lake	south beach	6540600 N 0647700 E	stream margin	sedges	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
47	Stenus	sp. 9		3	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
48	Lathrobium	sp.		1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Lathrobium	sp.		1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Lathrobium	sp.		1	Wentzel Lake		6549470 N 0647180 E	pit traps	beach ridge to pine	10 June, 2003	T. Johnson	G. J. Hilchie
49	Paederus	littorarius	Gravenhorst	3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Paederus	littorarius	Gravenhorst	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Paederus	littorarius	Gravenhorst	1	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
50	Philonthus	cyanipennis	(Fabricius).	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Philonthus	cyanipennis	(Fabricius).	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Philonthus	cyanipennis	(Fabricius).	1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
51	Gabrius	sp.		4	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Gabrius	sp.		2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Gabrius	sp.		2	Wentzel River		6555700 N 0642700 E	sweeping	edge dry pond	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Gabrius	sp.		2	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
52	Staphylinus	capitatus	Bland	1	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
53	Tympanoporus	puncticollis	(Erichson)	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
54	Quedius	brunipennis	Mannerheim	6	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Quedius	brunipennis	Mannerheim	5	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Quedius	brunipennis	Mannerheim	3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Quedius	brunipennis	Mannerheim	1	Wentzel Lake	south beach	6540600 N 0647700 E	pan traps	upper beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Quedius	brunipennis	Mannerheim	1	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	10 June, 2003	T. Johnson	G. J. Hilchie
	Quedius	brunipennis	Mannerheim	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Quedius	brunipennis	Mannerheim	2	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie
	Quedius	brunipennis	Mannerheim	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
55	Quedius	caseyi	Scheerp	2	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Quedius	caseyi	Scheerp	3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Quedius	caseyi	Scheerp	1	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
	Quedius	caseyi	Scheerp	2	Wentzel Lake		6550410 N 0645690 E	pan traps	birch, spruce	18 July, 2003	T. Johnson	G. J. Hilchie
	Quedius	caseyi	Scheerp	2	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
56	Quedius	simulator	Smetana	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Quedius	simulator	Smetana	3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Quedius	simulator	Smetana	2	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
57	Quedius	fellmani	(Zetterstedt)	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Quedius	fellmani	(Zetterstedt)	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Quedius	fellmani	(Zetterstedt)	1	Wentzel Lake		6549960 N 0647470 E	hand	creek bank	17 July, 2003	T. Johnson	G. J. Hilchie
	Quedius	fellmani	(Zetterstedt)	5	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
58	Pselaphus	bellax	Casey	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
59	Scaphium	castanipes	Kirby	9	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Scaphium	castanipes	Kirby	1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Scaphium	castanipes	Kirby	15	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Scaphium	castanipes	Kirby	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Scaphium	castanipes	Kirby	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	6-8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Scaphium	castanipes	Kirby	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	T. Johnson	G. J. Hilchie
	Scaphium	castanipes	Kirby	2	Wentzel Lake	base camp	6549500 N 0647400 E	off <i>Pleurotus ostreatus</i>		8 July, 2003	D. Vujnovic	G. J. Hilchie
	Scaphium	castanipes	Kirby	1	Wentzel Lake		6550410 N 0645690 E	pan traps	birch, spruce	18 July, 2003	T. Johnson	G. J. Hilchie
	Scaphium	castanipes	Kirby	1	Wentzel Lake	base camp	6549500 N 0647400 E	ex mushroom		18 July, 2003	B. Richards	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera	FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
Scarabaeidae													
1	Aegialia	lacustris	LeConte	2	Wentzel Lake			6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Aegialia	lacustris	LeConte	3	Wentzel River	site 1		6554700 N 0643500 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Aegialia	lacustris	LeConte	1	Wentzel Lake	fish camp		6547500 N 0642300 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Aphodius	omissus omissus	LeConte	1	Wentzel River			6555700 N 0642700 E	sweeping	carex, dry pond	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
3	Aphodius	leopardus	Horn	1	Wentzel Lake	base camp		6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Aphodius	leopardus	Horn	3	Wentzel Lake	base camp		6549500 N 0647400 E	general		15 July, 2003	T. Johnson	G. J. Hilchie
	Aphodius	leopardus	Horn	1	Wentzel Lake	open muskeg		6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
	Aphodius	leopardus	Horn	1	Wentzel Lake	base camp		6549500 N 0647400 E	pit traps	pine woods	6-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Eucinetidae													
1	Eucinetus	terminalis	LeConte	1	Wentzel Lake			6550410 N 0645690 E	pan traps	birch, spruce	18 July, 2003	T. Johnson	G. J. Hilchie
	Eucinetus	terminalis	LeConte	1	Wentzel Lake	open muskeg		6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
Scirtidae (=Helodidae)													
1	Cyphon	variabilis	(Thunberg)	1	Horseshoe Lake			6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cyphon	variabilis	(Thunberg)	1	Wentzel Lake	birch point		6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cyphon	variabilis	(Thunberg)	1	Wentzel Lake			6549960 N 0647470 E	pan traps	grassy creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
	Cyphon	variabilis	(Thunberg)	3	Wentzel Lake	sand point		6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cyphon	variabilis	(Thunberg)	3	Wentzel River			6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Cyphon	variabilis	(Thunberg)	2	Wentzel Lake	horsetail meadow		6550960 N 0645420 E			16 July, 2003	T. Johnson	G. J. Hilchie
	Cyphon	variabilis	(Thunberg)	2	Wentzel Lake	base camp		6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
	Cyphon	variabilis	(Thunberg)	1	Wentzel Lake	base camp		6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cyphon	variabilis	(Thunberg)	1	Wentzel Lake	base camp		6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Buprestidae													
1	Melanophila	fulvoguttata	(Harris)	3	Wentzel Lake	base camp		6549500 N 0647400 E	general		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Oxypteris	acuminata	(DeGeer)	4	Wentzel Lake	base camp		6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
3	Chrysobothris	trinervia	(Kirby)	2	Wentzel Lake	base camp		6549500 N 0647400 E	general		13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
4	Anthaxia	inornata	(Randall)	1	Wentzel River			6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
Byrrhidae													
1	Byrrhus	americanus	LeConte	1	Wentzel Lake	birch point		6550200 N 0645800 E	sweeping/washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Byrrhus	americanus	LeConte	1	Wentzel Lake	base camp		6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Byrrhus	americanus	LeConte	1	Wentzel Lake	base camp		6549500 N 0647400 E	pit traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Byrrhus	americanus	LeConte	1	Wentzel Lake	base camp		6549500 N 0647400 E	general		13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Cytilus	alternatus	Say	6	Wentzel Lake	sand point		6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cytilus	alternatus	Say	1	Wentzel Lake	river mouth		6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cytilus	alternatus	Say	2	Wentzel Lake	birch point		6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cytilus	alternatus	Say	1	Horseshoe Lake			6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cytilus	alternatus	Say	1	Wentzel Lake	base camp		6549500 N 0647400 E	general		7 July, 2003	T. Johnson	G. J. Hilchie
	Cytilus	alternatus	Say	1	Wentzel Lake	base camp		6549500 N 0647400 E	pit traps	along beach	6-8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cytilus	alternatus	Say	1	Wentzel Lake	base camp		6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
3	Simplocaria	metallica	(Strum)	1	Wentzel River			6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
4	Curimopsis	moosilauke	Johnson	2	Wentzel Lake	base camp		6549500 N 0647400 E	pit traps	along beach	6-8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Curimopsis	moosilauke	Johnson	1	Wentzel Lake	base camp		6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Curimopsis	moosilauke	Johnson	1	Wentzel Lake			6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
Elateridae (16 species)													
1	Danosoma	brevicorne	(LeConte)	1	Wentzel Lake	sand point		6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Danosoma	obtectum	(Say)	1	Wentzel Lake	birch point		6550200 N 0645800 E	sweeping/washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Danosoma	obtectum	(Say)	1	Wentzel Lake	base camp		6549500 N 0647400 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
3	Limonus	aeger	LeConte	2	Wentzel Lake	sand point		6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
4	Denticollis	denticornis	(Kirby)	2	Wentzel Lake	sand point		6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
5	Hypnoidus	bicolor	(Esch.)	7	Wentzel Lake	base camp		6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hypnoidus	bicolor	(Esch.)	4	Wentzel Lake	base camp		6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hypnoidus	bicolor	(Esch.)	1	Wentzel Lake	base camp		6549500 N 0647400 E	pit traps	general	13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
6	Ctenicaera	nitidulula	LeConte	9	Wentzel Lake	sand point		6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ctenicaera	nitidulula	LeConte	1	Wentzel Lake	base camp		6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ctenicaera	nitidulula	LeConte	1	Wentzel Lake	base camp		6549500 N 0647400 E	pit traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ctenicaera	nitidulula	LeConte	1	Wentzel Lake	south beach		6540600 N 0647700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ctenicaera	nitidulula	LeConte	1	Wentzel Lake	east of outflow		6539200 N 0654470 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ctenicaera	nitidulula	LeConte	2	Wentzel Lake	birch point		6550200 N 0645800 E	sweeping/washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ctenicaera	nitidulula	LeConte	2	Wentzel Lake	base camp		6549500 N 0647400 E	general		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ctenicaera	nitidulula	LeConte	1	Wentzel Lake	base camp		6549500 N 0647400 E	general		13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera												
FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
7	Ctenicaera	propola propola	(LeConte)	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ctenicaera	propola propola	(LeConte)	1	Wentzel Lake	birch point	6550200 N 0645800 E	sweeping/washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ctenicaera	propola propola	(LeConte)	1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
8	Ctenicaera	propola propola	(LeConte)	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ctenicaera	kendalli	Kirby	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ctenicaera	kendalli	Kirby	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
9	Ctenicaera	triundulata	(Randall)	1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ctenicaera	triundulata	(Randall)	1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
10	Eanus	estriatus	(LeConte)	2	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Eanus	estriatus	(LeConte)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
11	Eanus	decoratus	(Mannerheim)	27	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Eanus	decoratus	(Mannerheim)	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Eanus	decoratus	(Mannerheim)	2	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Eanus	decoratus	(Mannerheim)	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Eanus	decoratus	(Mannerheim)	2	Wentzel Lake		6549960 N 0647470 E	along creek		7 July, 2003	T. Johnson	G. J. Hilchie
	Eanus	decoratus	(Mannerheim)	1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
12	Sericus	incongruus	(LeConte)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Sericus	incongruus	(LeConte)	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Sericus	incongruus	(LeConte)	1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
13	Ampedus	pullus	Germar	2	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
	Ampedus	pullus	Germar	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
14	Ampedus	nigrinus	(Herbst)	9	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ampedus	nigrinus	(Herbst)	2	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ampedus	nigrinus	(Herbst)	1	Wentzel Lake	base camp	6549960 N 0647470 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
	Ampedus	nigrinus	(Herbst)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ampedus	nigrinus	(Herbst)	1	Wentzel Lake	east of outlet	6539200 N 0644700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ampedus	nigrinus	(Herbst)	1	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
15	Ampedus	apicatus	Say	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ampedus	apicatus	Say	1	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
16	Ampedus	sanguinipennis	(Say)	39	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ampedus	sanguinipennis	(Say)	3	Wentzel Lake	south beach	6540600 N 0647700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ampedus	sanguinipennis	(Say)	1	Wentzel Lake	fish camp	6547500 N 0642300 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ampedus	sanguinipennis	(Say)	1	Wentzel Lake	base camp	6549960 N 0647470 E	hand		15 July, 2003	T. Johnson	G. J. Hilchie
	Ampedus	sanguinipennis	(Say)	2	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Lycidae												
1	Dictyopterus	auroa	(Herbst)	1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Dictyopterus	auroa	(Herbst)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
2	Dictyopterus	thoracicus	(Randall)	3	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Dictyopterus	thoracicus	(Randall)	1	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
3	Plateros	lictor	(Newman)	4	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Plateros	lictor	(Newman)	15	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Plateros	lictor	(Newman)	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup	beach	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Lampyridae												
1	Practomena	borealis	(Randall)	14	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Practomena	borealis	(Randall)	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	spruce bog	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Practomena	borealis	(Randall)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Practomena	linearis	LeConte	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Practomena	linearis	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
3	Ellychina	corrusa	(Linne).	4	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	T. Johnson	G. J. Hilchie
	Ellychina	corrusa	(Linne).	3	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Ellychina	corrusa	(Linne).	1	Wentzel River	site 1	6554700 N 0643500 E	sweeping	river shore	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ellychina	corrusa	(Linne).	1	Wentzel Lake		6549470 N 0647180 E	pit traps	beach ridge to pine	10 June, 2003	T. Johnson	G. J. Hilchie
	Ellychina	corrusa	(Linne).	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Ellychina	corrusa	(Linne).	1	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Ellychina	corrusa	(Linne).	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie	
	corrusa	(Linne).	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie	
	corrusa	(Linne).	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie	
	corrusa	(Linne).	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie	
	corrusa	(Linne).	1	Wentzel Lake	base camp	6549960 N 0647470 E	pan traps	grassy creek bank	17 July, 2003	T. Johnson	G. J. Hilchie	

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera												
FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
Cantharidae (11 species)												
1	Podabrus	extremus	LeConte	1	Wentzel Lake		6550410 N 0645690 E	pan traps	birch, spruce	18 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	extremus	LeConte	2	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	extremus	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	extremus	LeConte	1	Horseshoe Lake	east of	6590800 N 0572500 E	general	trail to pattern fen	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	extremus	LeConte	1	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	extremus	LeConte	2	Wentzel River		6555700 N 0642700 E	sweeping	carex, dry pond	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	extremus	LeConte	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	extremus	LeConte	4	Wentzel Lake	south beach	6540600 N 0647700 E	pan traps	upper beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	extremus	LeConte	1	Wentzel River		6556800 N 0642600 E	general	sedge meadow	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Podabrus	sp. 1		2	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
3	Podabrus	sp. 2		6	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 2		2	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 3		1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
4	Podabrus	sp. 3		1	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 3		1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 3		1	Wentzel Lake	east of outflow	6539200 N 0654470 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 3		1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
5	Podabrus	sp. 4		2	Wentzel River		6549960 N 0647470 E	pan traps	creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
6	Podabrus	sp. 5		1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	sp. 5		1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	sp. 5		1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 5		1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6-8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 5		1	Wentzel Lake	base camp	6549500 N 0647400 E	pan traps	pine woods	6-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 5		1	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	sp. 5		1	Wentzel River		6555700 N 0642700 E	sweeping	carex, dry pond	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 5		2	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
7	Podabrus	sp. 6		1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 6		1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 6		7	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 6		2	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 6		2	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 6		1	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	sp. 6		1	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	sp. 6		2	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	sp. 6		1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 6		1	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	sp. 6		1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	sp. 6		2	Wentzel Lake	base camp	6549500 N 0647400 E	general		15 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	sp. 7		1	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
8	Podabrus	sp. 7		2	Wentzel Lake	base camp	6549500 N 0647400 E	general	shoreline	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 7		1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 7		1	Wentzel Lake	F & W cabin	6544000 N 0647900 E	hand	beach rocks	8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
9	Podabrus	sp. 8		1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 8		3	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 8		1	Wentzel Lake	east of outlet	6539200 N 0644700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 8		1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 8		1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 8		2	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	sp. 8		1	Wentzel Lake	horsetail meadow	6550960 N 0645420 E			16 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	sp. 8		1	Wentzel Lake		6550410 N 0645690 E	pan traps	birch, spruce	18 July, 2003	T. Johnson	G. J. Hilchie
	Podabrus	sp. 8		3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Podabrus	sp. 8		1	Wentzel Lake	base camp	6549500 N 0647400 E	general		15 July, 2003	T. Johnson	G. J. Hilchie
10	Cantharis	curtisi	(Kirby)	2	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cantharis	curtisi	(Kirby)	1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cantharis	curtisi	(Kirby)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		15 July, 2003	T. Johnson	G. J. Hilchie
11	Silis	difficilis	LeConte	2	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Silis	difficilis	LeConte	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera	FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
Anobiidae													
1	Utobium	granulatum	White		1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Utobium	elegans	(Horn)		2	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
3	Ernobius	sp.			3	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
4	Hemicoelus	carinatus	(Say)		1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
5	Ptilinus	lobatus	Casey		1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
6	Caenocara	scymnoides	LeConte		1	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
	Caenocara	scymnoides	LeConte		1	Wentzel River	site 1	6554700 N 0643500 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Trogossitidae (= Ostomidae)													
1	Ostoma	columbiana	Casey		1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Calitys	scabra	(Thunberg)		1	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	T. Johnson	G. J. Hilchie
Melyridae													
1	Hoppingiana	hudsonica	(LeConte)		1	Wentzel Lake	base camp	6549960 N 0647470 E	hand		15 July, 2003	T. Johnson	G. J. Hilchie
	Hoppingiana	hudsonica	(LeConte)		1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hoppingiana	hudsonica	(LeConte)		3	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hoppingiana	hudsonica	(LeConte)		1	Wentzel Lake	east of outlet	6539200 N 0644700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hoppingiana	hudsonica	(LeConte)		1	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Attalus	nigrellus	(LeConte)		8	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Nitidulidae													
1	Eupuræ	linearis	Maklin		1	Wentzel Lake	base camp	6549500 N 0647400 E	general		15 July, 2003	T. Johnson	G. J. Hilchie
2	Meligethes	canadensis	Easton		1	Wentzel River	site 1	6554700 N 0643500 E	pan traps	stream side	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Meligethes	canadensis	Easton		1	Wentzel River	site 1	6554700 N 0643500 E	sweeping	shore	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Sylvanidae													
1	Pediacus	depressus	Herbst		1	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	T. Johnson	G. J. Hilchie
Phalacridae													
1	Phalacrus	sp.			1	Wentzel Lake	south beach	6540600 N 0647700 E	sweeping	sedges	8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phalacrus	sp.			1	Wentzel Lake	south beach	6540600 N 0647700 E	sweeping		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phalacrus	sp.			1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phalacrus	sp.			1	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Cryptophagidae													
1	Cryptophagus	cellaris	(Scopoli)		1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cryptophagus	cellaris	(Scopoli)		5	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cryptophagus	cellaris	(Scopoli)		23	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
	Cryptophagus	cellaris	(Scopoli)		4	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Cryptophagus	cellaris	(Scopoli)		1	Wentzel Lake	base camp	6549500 N 0647400 E	pan traps	pine woods	6-8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cryptophagus	cellaris	(Scopoli)		6	Wentzel Lake	base camp	6549500 N 0647400 E	pan traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cryptophagus	cellaris	(Scopoli)		3	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
	Cryptophagus	cellaris	(Scopoli)		1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Cryptophagus	cellaris	(Scopoli)		1	Wentzel Lake		6550410 N 0645690 E	pan traps	birch, spruce	18 July, 2003	T. Johnson	G. J. Hilchie
	Cryptophagus	cellaris	(Scopoli)		1	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	T. Johnson	G. J. Hilchie
	Cryptophagus	cellaris	(Scopoli)		1	Wentzel Lake	base camp	6549500 N 0647400 E	pan traps	spruce bog	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Cryptophagus	cellaris	(Scopoli)		1	Wentzel Lake	base camp	6549500 N 0647400 E	mouse traps	wet muskeg	18 July, 2003	D. Vujnovic	G. J. Hilchie
2	Atomaria	ochracea	Zimmermann		1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Atomaria	ochracea	Zimmermann		1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Atomaria	ephippiata	Zimmermann		1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Atomaria	ephippiata	Zimmermann		1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
3	Atomaria	sp.			1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Erotylidae													
1	Triplax	thoracia	(Say)		6	Wentzel Lake	base camp	6549500 N 0647400 E	ex mushroom		18 July, 2003	B. richards	G. J. Hilchie
Byturidae													
1	Byturis	unicolor	Say		2	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Coccinellidae (14 species)													
1	Didion	longulum	Casey		1	Wentzel Lake	base camp	6549500 N 0647400 E	general		9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Hyperaspis	disconotata	Mulsant		1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
3	Brumoides	septentrionis septentrionis	Weise		1	Wentzel Lake	south beach	6540600 N 0647700 E	washup	along beach	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Brumoides	septentrionis septentrionis	Weise		1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera												
FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
4	Anisoticta	bitriangularis	(Say)	2	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	5	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	3	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	3	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	3	Wentzel Lake	south beach	6540600 N 0647700 E	washup	along beach	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	2	Wentzel Lake	south beach	6540600 N 0647700 E	sweeping		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	1	Wentzel Lake	south beach	6540600 N 0647700 E	pit traps	along beach	8-10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	1	Wentzel Lake	horsetail meadow	6550960 N 0645420 E			16 July, 2003	T. Johnson	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	1	Wentzel River		6556800 N 0642600 E	general	sedge meadow	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	1	Wentzel Lake		6549470 N 0647180 E	pit traps	beach ridge to pine	10 June, 2003	T. Johnson	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	2	Wentzel River		6555700 N 0642700 E	sweeping	carex, dry pond	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anisoticta	bitriangularis	(Say)	2	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
5	Macronaemia	episcopalis	(Kirby)	3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Macronaemia	episcopalis	(Kirby)	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Macronaemia	episcopalis	(Kirby)	1	Wentzel River		6555700 N 0642700 E	sweeping	carex, dry pond	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
6	Hippodamia	moesta bowditchi	Johnson	6	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hippodamia	moesta bowditchi	Johnson	1	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hippodamia	moesta bowditchi	Johnson	1	Wentzel Lake	east of outlet	6539200 N 0644700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hippodamia	moesta bowditchi	Johnson	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
7	Anatis	mali	(Say)	19	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anatis	mali	(Say)	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
8	Myza	pullata	(Say)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
	Myza	pullata	(Say)	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
9	Clavia	quatuoedecimguttata	(Linne.)	3	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Clavia	quatuoedecimguttata	(Linne.)	2	Wentzel Lake	east of outlet	6539200 N 0644700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
10	Adalia	bipunctata	(Linne)	9	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Adalia	bipunctata	(Linne)	1	Wentzel Lake	east of outlet	6539200 N 0644700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Adalia	bipunctata	(Linne)	1	Wentzel Lake	base camp	6549960 N 0647470 E	hand		15 July, 2003	T. Johnson	G. J. Hilchie
	Adalia	bipunctata	(Linne)	1	Wentzel Lake	fish camp	6547500 N 0642300 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Adalia	bipunctata	(Linne)	5	Wentzel Lake	south beach	6540600 N 0647700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Adalia	bipunctata	(Linne)	1	Wentzel River		6555700 N 0642700 E	sweeping	edge dry pond	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
11	Coccinella	trifaciata perplexa	Mulsant	7	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Coccinella	trifaciata perplexa	Mulsant	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
12	Coccinella	septempunctata	(Linne)	3	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Coccinella	septempunctata	(Linne)	1	Wentzel Lake	east of outlet	6539200 N 0644700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Coccinella	septempunctata	(Linne)	1	Wentzel Lake		6549470 N 0647180 E	pit traps	beach ridge to pine	10 June, 2003	T. Johnson	G. J. Hilchie
13	Mulsantina	hudsonica	(Casey)	4	Wentzel Lake	south beach	6540600 N 0647700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Mulsantina	hudsonica	(Casey)	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Mulsantina	hudsonica	(Casey)	1	Wentzel Lake	birch point	6550200 N 0645800 E	sweeping/washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Mulsantina	hudsonica	(Casey)	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Mulsantina	hudsonica	(Casey)	1	Wentzel Lake	east of outlet	6539200 N 0644700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
14	Psyllobora	vigintimaculata	(Say)	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Latridiidae												
1	Corticaria	sp.		1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Corticaria	sp.		1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	pine woods	6-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Melanophthalma	americana	(Mannerheim)	1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Salpingidae												
1	Sphaeriestes	virescens	(LeConte)	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup	beach	8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Sphaeriestes	virescens	(LeConte)	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Melandryidae												
1	Xylita	laevigata	(Hellenius)	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Xylita	livida	Sahlberg	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Mordellidae												
1	Tomoxia	borealis	(LeConte)	4	Wentzel Lake	south beach	6540600 N 0647700 E	sweeping		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tomoxia	borealis	(LeConte)	1	Wentzel Lake	base camp	6549500 N 0647400 E	pan traps	pine woods	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Mordellistena	sp.		2	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera	FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
Tenebrionidae													
1	Scaphidema	aeneolum	LeConte	11	Wentzel Lake	sand point	6546600 N 0646200 E	washup			8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Scaphidema	aeneolum	LeConte	1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps			9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Scaphidema	aeneolum	LeConte	3	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Scaphidema	aeneolum	LeConte	1	Wentzel River	site 1	6554700 N 0643500 E	beaver pond			8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Scaphidema	aeneolum	LeConte	1	Wentzel River	site 1	6554700 N 0643500 E	pit traps			9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Scaphidema	aeneolum	LeConte	1	Wentzel River	site 1	6554700 N 0643500 E	sweeping			7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Scaphidema	aeneolum	LeConte	1	Horseshoe Lake		6509600 N 0571300 E	hand	washup		11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Upis	ceramboides	(Linne)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general			13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Upis	ceramboides	(Linne)	2	Wentzel Lake	base camp	6549500 N 0647400 E	general			10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Boriedae													
1	Lecontia	discolis	(LeConte)	1	Wentzel Lake	fish camp	6547500 N 0642300 E	general			8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Pythidae													
1	Pytho	niger	Kirby	1	Wentzel Lake	birch point	6550200 N 0645800 E	sweeping/washup			8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Anthicidae													
1	Anthicus	scabriceps	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	general			8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anthicus	scabriceps	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach		6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anthicus	scabriceps	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anthicus	coracinus	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach		6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Anthicus	coracinus	LeConte	1	Wentzel Lake		6549470 N 0647180 E	pit traps	beach ridge to pine		10 June, 2003	T. Johnson	G. J. Hilchie
3	Anthicus	nigrinus	Mannerheim	5	Wentzel Lake	sand point	6546600 N 0646200 E	washup			8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
4	Anthicus	haldermani	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach		6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Scaptiidae													
1	Anaspis	atrata?	Champion	2	Wentzel Lake	sand point	6546600 N 0646200 E	washup			8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Anaspis	atrata?	Champion	2	Horseshoe Lake		6509600 N 0571300 E	hand	washup		11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Cerambycidae (11 species)													
1	Arhopalus	fovicollis	(Haldeman)	2	Wentzel Lake	base camp	6549500 N 0647400 E	general			8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Arhopalus	fovicollis	(Haldeman)	5	Wentzel Lake	base camp	6549500 N 0647400 E	general			10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Arhopalus	fovicollis	(Haldeman)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general			13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Arhopalus	fovicollis	(Haldeman)	2	Wentzel Lake	base camp	6549500 N 0647400 E	general			15 July, 2003	T. Johnson	G. J. Hilchie
2	Asemum	striatum	(Linne)	1	Wentzel Lake	base camp	6549500 N 0647400 E	hand	spruce & pine logs		7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Asemum	striatum	(Linne)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general			8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Asemum	striatum	(Linne)	5	Wentzel Lake	base camp	6549500 N 0647400 E	general			10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Asemum	striatum	(Linne)	1	Wentzel Lake		6549470 N 0647180 E	hand			10 July, 2003	T. Johnson	G. J. Hilchie
	Asemum	striatum	(Linne)	1	Horseshoe Lake		6509600 N 0571300 E	hand	washup		11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Asemum	striatum	(Linne)	1	Wentzel Lake	base camp	6549500 N 0647400 E	hand			11 July, 2003	camp crew	G. J. Hilchie
	Asemum	striatum	(Linne)	2	Wentzel Lake	base camp	6549500 N 0647400 E	hand			13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Asemum	striatum	(Linne)	1	Wentzel River		6549960 N 0647470 E	hand	creek bank		17 July, 2003	T. Johnson	G. J. Hilchie
3	Pronocera	collaris collaris	(Kirby)	1	Wentzel Lake	base camp	6549500 N 0647400 E	hand			15 July, 2003	T. Johnson	G. J. Hilchie
4	Xylotrechus	longitrsus	Casey	1	Wentzel Lake	base camp	6549500 N 0647400 E	general			10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Xylotrechus	longitrsus	Casey	1	Wentzel Lake	base camp	6549500 N 0647400 E	hand			11 July, 2003	camp crew	G. J. Hilchie
	Xylotrechus	longitrsus	Casey	3	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand			13 July, 2003	T. Johnson	G. J. Hilchie
	Xylotrechus	longitrsus	Casey	1	Wentzel Lake	base camp	6549500 N 0647400 E	general			15 July, 2003	T. Johnson	G. J. Hilchie
	Xylotrechus	longitrsus	Casey	1	Wentzel Lake	horsetail meadow	6550960 N 0645420 E				16 July, 2003	T. Johnson	G. J. Hilchie
5	Pachyta	lamed liturata	Kirby	1	Wentzel Lake	base camp	6549500 N 0647400 E	general			15 July, 2003	T. Johnson	G. J. Hilchie
	Pachyta	lamed liturata	Kirby	1	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand			13 July, 2003	T. Johnson	G. J. Hilchie
	Pachyta	lamed liturata	Kirby	1	Wentzel Lake	base camp	6549500 N 0647400 E	hand			13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
6	Rhagium	inquisitor	(Linne)	2	Wentzel Lake	base camp	6549500 N 0647400 E	hand	spruce & pine logs		7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Rhagium	inquisitor	(Linne)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general			13 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Rhagium	inquisitor	(Linne)	1	Wentzel Lake	base camp	6549960 N 0647470 E	hand			17 July, 2003	T. Johnson	G. J. Hilchie
7	Acmaeops	proteus proteus	(Kirby)	12	Wentzel Lake	base camp	6549960 N 0647470 E	general			17 June, 2003	T. Johnson	G. J. Hilchie
	Acmaeops	proteus proteus	(Kirby)	2	Wentzel Lake		6549470 N 0647180 E		beach ridge to pine		10 June, 2003	T. Johnson	G. J. Hilchie
	Acmaeops	proteus proteus	(Kirby)	2	Wentzel Lake	base camp	6549500 N 0647400 E	general			7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Acmaeops	proteus proteus	(Kirby)	2	Wentzel Lake	sand point	6546600 N 0646200 E	washup			8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Acmaeops	proteus proteus	(Kirby)	5	Wentzel Lake	base camp	6549500 N 0647400 E	general			10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Acmaeops	proteus proteus	(Kirby)	1	Wentzel Lake	base camp	6549500 N 0647400 E	hand			11 July, 2003	camp crew	G. J. Hilchie
	Acmaeops	proteus proteus	(Kirby)	2	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand			13 July, 2003	T. Johnson	G. J. Hilchie
	Acmaeops	proteus proteus	(Kirby)	2	Wentzel Lake	base camp	6549500 N 0647400 E	general			13 July, 2003	T. Johnson	G. J. Hilchie
	Acmaeops	proteus proteus	(Kirby)	1	Wentzel Lake		6550280 N 0647960 E	pan trap	grass, cranberry		18 July, 2003	T. Johnson	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera												
FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
8	Trachysida	mutabilis	(Newman)	1	Wentzel Lake	base camp	6549500 N 0647400 E	hand		11 July, 2003	camp crew	G. J. Hilchie
	Trachysida	mutabilis	(Newman)	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Trachysida	mutabilis	(Newman)	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
9	Monochamus	scutellatus scutellatus	(Say)	1	Wentzel Lake		6549470 N 0647180 E	pit traps	beach ridge to pine	10 June, 2003	T. Johnson	G. J. Hilchie
	Monochamus	scutellatus scutellatus	(Say)	2	Wentzel River	site 1	6554700 N 0643500 E	Malaise trap		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Monochamus	scutellatus scutellatus	(Say)	2	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Monochamus	scutellatus scutellatus	(Say)	3	Wentzel Lake	base camp	6549500 N 0647400 E	hand		11 July, 2003	camp crew	G. J. Hilchie
	Monochamus	scutellatus scutellatus	(Say)	2	Wentzel River	site 1	6554700 N 0643500 E	pan trap		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Monochamus	scutellatus scutellatus	(Say)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Monochamus	scutellatus scutellatus	(Say)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		15 July, 2003	T. Johnson	G. J. Hilchie
	Monochamus	scutellatus scutellatus	(Say)	1	Wentzel River	east of creek	6550220 N 0647830 E		poplar, willow, grass	14 July, 2003	T. Johnson	G. J. Hilchie
10	Pogonocherus	mixtus	Haldeman	1	Wentzel Lake	east of outlet	6539200 N 0644700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Pogonocherus	mixtus	Haldeman	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
11	Saperda	calcarata	Say	3	Wentzel Lake	open muskeg	6549260 N 0647090 E	hand		13 July, 2003	T. Johnson	G. J. Hilchie
Urosachnidae (=Chrysomelidae in part)												
1	Orasadacne	atra	Ahrens	10	Wentzel Lake	south beach	6540600 N 0647700 E	beach	washup	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Orasadacne	atra	Ahrens	15	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Orasadacne	atra	Ahrens	3	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
	Orasadacne	atra	Ahrens	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Orasadacne	atra	Ahrens	1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Orasadacne	atra	Ahrens	1	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
	Orasadacne	atra	Ahrens	1	Wentzel Lake	east of outflow	6539200 N 0654470 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Orasadacne	atra	Ahrens	1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Orasadacne	atra	Ahrens	1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Chrysomelidae (29 species)												
1	Plateumaris	germari	(Mannerheim)	3	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Plateumaris	germari	(Mannerheim)	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup	driftline	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Plateumaris	germari	(Mannerheim)	1	Wentzel Lake	south beach	6540600 N 0647700 E	stream margin	sedges	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Plateumaris	germari	(Mannerheim)	5	Wentzel Lake	south beach	6540600 N 0647700 E	sweeping	sedges	8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Plateumaris	germari	(Mannerheim)	9	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Plateumaris	germari	(Mannerheim)	3	Wentzel Lake	Osprey Bay	6544800 N 0645200 E		near river mouth	8 July, 2003	C. Booth	G. J. Hilchie
	Plateumaris	germari	(Mannerheim)	2	Wentzel Lake	horsetail meadow	6550960 N 0645420 E			16 July, 2003	T. Johnson	G. J. Hilchie
	Plateumaris	germari	(Mannerheim)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
2	Donacia	hirticollis	Kirby	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
3	Zeugophora	abnormis	(LeConte)	5	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Zeugophora	abnormis	(LeConte)	1	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
4	Bromius	obscurus	(Linne)	2	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Bromius	obscurus	(Linne)	1	Wentzel Lake	sand point	6546600 N 0646200 E	sweeping		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Bromius	obscurus	(Linne)	4	Wentzel Lake	south beach	6540600 N 0647700 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Bromius	obscurus	(Linne)	1	Wentzel Lake	south beach	6540600 N 0647700 E	sweeping		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
5	Phaedon	laevigatus	(Duftschmid)	18	Wentzel Lake	south beach	6540600 N 0647700 E	off Barbarea othoceras	along beach	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phaedon	laevigatus	(Duftschmid)	1	Wentzel Lake	south beach	6540600 N 0647700 E	sweeping		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phaedon	laevigatus	(Duftschmid)	2	Wentzel River		6555700 N 0642700 E	sweeping	edge dry pond	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phaedon	laevigatus	(Duftschmid)	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phaedon	laevigatus	(Duftschmid)	1	Wentzel Lake		6549470 N 0647180 E	pit traps	beach ridge to pine	10 June, 2003	T. Johnson	G. J. Hilchie
	Phaedon	laevigatus	(Duftschmid)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phaedon	laevigatus	(Duftschmid)	4	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6-8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phaedon	laevigatus	(Duftschmid)	3	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phaedon	laevigatus	(Duftschmid)	1	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
6	Phaedon	oviformis	(LeConte)	1	Wentzel River		6555700 N 0642700 E	sweeping	edge dry pond	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera												
FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
7	Phaedon	armoraciae	(Linne)	2	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phaedon	armoraciae	(Linne)	1	Wentzel Lake	Osprey Bay	6544800 N 0645200 E		near river mouth	8 July, 2003	C. Booth	G. J. Hilchie
	Phaedon	armoraciae	(Linne)	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
8	Phaedon	prasinellus	(LeConte)	1	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie
	Phaedon	prasinellus	(LeConte)	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
9	Hydrothassa	boreela	Schaffer	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hydrothassa	boreela	Schaffer	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hydrothassa	boreela	Schaffer	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Hydrothassa	boreela	Schaffer	1	Wentzel River		6549960 N 0647470 E	pan traps	creek bank	17 July, 2003	T. Johnson	G. J. Hilchie
	Hydrothassa	boreela	Schaffer	1	Wentzel River		6549960 N 0647470 E	pan traps	creek bank	13 July, 2003	T. Johnson	G. J. Hilchie
10	Prasocuris	phellandrii	(Linne)	1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Prasocuris	phellandrii	(Linne)	1	Wentzel Lake	base camp	6549960 N 0647470 E	general		7 July, 2003	T. Johnson	G. J. Hilchie
11	Chrysomela	mainensis mainensis	Bechyne	5	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Chrysomela	mainensis mainensis	Bechyne	3	Wentzel Lake	sand point	6546600 N 0646200 E	washup		10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Chrysomela	mainensis mainensis	Bechyne	5	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
	Chrysomela	mainensis mainensis	Bechyne	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Chrysomela	mainensis mainensis	Bechyne	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Chrysomela	mainensis mainensis	Bechyne	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Chrysomela	mainensis mainensis	Bechyne	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Chrysomela	mainensis mainensis	Bechyne	1	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Chrysomela	mainensis mainensis	Bechyne	1	Wentzel Lake	horsetail meadow	6550960 N 0645420 E			16 July, 2003	T. Johnson	G. J. Hilchie
12	Chrysomela	crotchi	Brown	3	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Chrysomela	crotchi	Brown	1	Wentzel Lake	river mouth	6544800 N 0654200 E	beach	near mouth of river	9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Chrysomela	crotchi	Brown	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup	along beach	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Chrysomela	crotchi	Brown	1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
13	Chrysomela	knabi	Brown	2	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
14	Gonioctena	americana	(Schaeffer)	6	Wentzel Lake	south beach	6540600 N 0647700 E	washup	along beach	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Gonioctena	americana	(Schaeffer)	13	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Gonioctena	americana	(Schaeffer)	5	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
	Gonioctena	americana	(Schaeffer)	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Gonioctena	americana	(Schaeffer)	3	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Gonioctena	americana	(Schaeffer)	2	Wentzel Lake	base camp	6549500 N 0647400 E	general		7 July, 2003	T. Johnson	G. J. Hilchie
	Gonioctena	americana	(Schaeffer)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Gonioctena	americana	(Schaeffer)	2	Wentzel Lake	base camp	6549500 N 0647400 E	general		15 July, 2003	T. Johnson	G. J. Hilchie
15	Phratora	pupurea pupurea	Brown	7	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phratora	pupurea pupurea	Brown	1	Wentzel Lake	base camp	6549500 N 0647400 E	ex mushroom		18 July, 2003	B. Richards	G. J. Hilchie
	Phratora	pupurea pupurea	Brown	1	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phratora	pupurea pupurea	Brown	1	Wentzel Lake	outlet	6539200 N 0643700 E	sweeping	sedges along river	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phratora	pupurea pupurea	Brown	2	Wentzel Lake	south beach	6540600 N 0647700 E	washup	beach	8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phratora	pupurea pupurea	Brown	5	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
16	Phratora	hudsonia	Brown	5	Wentzel Lake	south beach	6540600 N 0647700 E	washup	beach	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phratora	hudsonia	Brown	11	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phratora	hudsonia	Brown	1	Horseshoe Lake		6509600 N 0571300 E	hand	washup	11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phratora	hudsonia	Brown	2	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
	Phratora	hudsonia	Brown	4	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phratora	hudsonia	Brown	2	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phratora	hudsonia	Brown	1	Wentzel Lake	fish camp	6547500 N 0642300 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
17	Galuerucella	nymphaeae	(Linne)	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Galuerucella	nymphaeae	(Linne)	1	Wentzel Lake	birch point	6550200 N 0645800 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Galuerucella	nymphaeae	(Linne)	1	Wentzel Lake	fish camp	6547500 N 0642300 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie

Appendix 1. Beetle specimens collected in Caribou Mountains Wildland Provincial Park in 2003.

Order Coleoptera												
FAMILY	GENUS	SPECIES	AUTHORITY	# SPECIMENS	LAKE/CREEK	LOCALITY 2	UTM COORDINATES (NAD 83, Zone 11)	COLLECTING METHOD	NOTES	COLLECTING DATE	COLLECTED BY	ID'd BY
18	Tricholochmaea	decora carbo	(LeConte)	2	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tricholochmaea	decora carbo	(LeConte)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
	Tricholochmaea	decora carbo	(LeConte)	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		15 July, 2003	T. Johnson	G. J. Hilchie
	Tricholochmaea	decora carbo	(LeConte)	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Tricholochmaea	decora carbo	(LeConte)	1	Wentzel Lake	south beach	6540600 N 0647700 E	washup	driftline	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
19	Phyllotreta	striolata	(Fabricius)	34	Wentzel River		6555700 N 0642700 E	off Barbarea othoceras	edge dry pond	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phyllotreta	striolata	(Fabricius)	9	Wentzel Lake	south beach	6540600 N 0647700 E	off Barbarea othoceras	along beach	10 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phyllotreta	striolata	(Fabricius)	1	Wentzel Lake	south beach	6540600 N 0647700 E	pan traps	upper beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phyllotreta	striolata	(Fabricius)	2	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Phyllotreta	striolata	(Fabricius)	1	Wentzel Lake		6550280 N 0647960 E	pan traps	aspen, grass	18 July, 2003	T. Johnson	G. J. Hilchie
	Phyllotreta	striolata	(Fabricius)	4	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
20	Phyllotreta	cruciferae	(Goeze)	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phyllotreta	cruciferae	(Goeze)	3	Wentzel Lake	south beach	6540600 N 0647700 E	off Barbarea othoceras	along beach	8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Phyllotreta	cruciferae	(Goeze)	1	Wentzel Lake		6550220 N 0647930 E		east of creek	14 July, 2003	T. Johnson	G. J. Hilchie
	Phyllotreta	cruciferae	(Goeze)	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	7 July, 2003	T. Johnson	G. J. Hilchie
	Phyllotreta	cruciferae	(Goeze)	1	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie
	Phyllotreta	cruciferae	(Goeze)	1	Wentzel River		6555700 N 0642700 E	off Barbarea othoceras	edge dry pond	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
21	Longitarsus	erro	Horn	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Longitarsus	erro	Horn	1	Wentzel River	site 1	6554700 N 0643500 E	pan traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Longitarsus	erro	Horn	1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Longitarsus	erro	Horn	1	Wentzel River		6549960 N 0647470 E	hand	creek bank	17 July, 2003	T. Johnson	G. J. Hilchie
22	Altica	tombacini	(Mannerheim)	2	Wentzel Lake		6549470 N 0647180 E	pan traps	beach ridge to muskeg	15 June, 2003	T. Johnson	G. J. Hilchie
	Altica	tombacini	(Mannerheim)	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
23	Altica	ambiens	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
24	Hippuriphila	mancula	(LeConte)	5	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hippuriphila	mancula	(LeConte)	1	Wentzel River	site 1	6554700 N 0643500 E	pan traps		9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hippuriphila	mancula	(LeConte)	1	Wentzel River	site 1	6554700 N 0643500 E	pit traps		7-9 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hippuriphila	mancula	(LeConte)	1	Wentzel Lake	birch point	6550200 N 0645800 E	pit traps		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Hippuriphila	mancula	(LeConte)	2	Wentzel Lake	horsetail meadow	6550960 N 0645420 E			16 July, 2003	T. Johnson	G. J. Hilchie
25	Crepidodera	digna	Parry	3	Wentzel Lake	base camp	6549500 N 0647400 E	general		6 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Crepidodera	digna	Parry	2	Wentzel Lake	base camp	6549500 N 0647400 E	general		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Crepidodera	digna	Parry	1	Wentzel Lake	base camp	6549500 N 0647400 E	general		17 June, 2003	T. Johnson	G. J. Hilchie
	Crepidodera	digna	Parry	1	Wentzel Lake		6550220 N 0647930 E	east of creek	poplar, willow, grass	14 July, 2003	T. Johnson	G. J. Hilchie
26	Mantura	floridana	Crotch	2	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Mantura	floridana	Crotch	1	Wentzel Lake	horsetail meadow	6550960 N 0645420 E			16 July, 2003	T. Johnson	G. J. Hilchie
27	Chaetocnema	protensa	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Chaetocnema	protensa	LeConte	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	9-11 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
28	Kuschelina	vians	(Illiger)	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
29	Disonycha	triangularis	Say	2	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Anthribidae												
1	Trigonorhinus	alternatus	(Say)	1	Wentzel Lake	horsetail meadow	6550960 N 0645420 E			16 July, 2003	T. Johnson	G. J. Hilchie
	Trigonorhinus	alternatus	(Say)	1	Wentzel River		6555700 N 0642700 E	off Barbarea othoceras	edge dry pond	7 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Atelabidae (Curculionidae in part)												
1	Temnocerus	cyanelus	(LeConte)	1	Wentzel Lake	sand point	6546600 N 0646200 E	washup		8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
Brentidae (Apionidae / Curculionidae)												
1	Perapion	punctinasum	(Smith)	1	Wentzel Lake	base camp	6549500 N 0647400 E	pit traps	along beach	6- 8 July, 2003	G.J. Hilchie, J.S. Hilchie	G. J. Hilchie
	Perapion	punctinasum	(Smith)	1	Wentzel Lake	horsetail meadow	6550960 N 0645420 E			16 July, 2003	T. Johnson	G. J. Hilchie

