

**APPENDIX 18-C  
2008 AND 2009 GRIZZLY BEAR DNA  
BASELINE REPORT**

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Seabridge Gold Inc.

# KSM PROJECT 2008 and 2009 Grizzly Bear DNA Baseline Report

SEABRIDGE GOLD



# KSM PROJECT 2008 AND 2009 GRIZZLY BEAR DNA BASELINE REPORT

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Prepared for:

## SEABRIDGE GOLD

Seabridge Gold Inc.

Prepared by:



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# Executive Summary

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This report presents the results of grizzly bear deoxyribonucleic acid (DNA) analyses undertaken by Rescan Environmental Services Ltd. (Rescan) on behalf of Seabridge Gold Inc. (Seabridge). The KSM Project is a gold/copper project located in the mountainous terrain of northwestern British Columbia (BC), approximately 950 km northwest of Vancouver, BC, and approximately 65 km northwest of Stewart, BC. The proposed project lies approximately 20 km southeast of Barrick Gold's recently-closed Eskay Creek Mine and 30 km northeast of the Alaska border.

Grizzly bears are a biologically, socially, and economically important species. Grizzly bears are federally listed as a species of concern by the Committee on the Status of Endangered Species in Canada (COSEWIC) and are on the blue-list in BC (i.e., their provincial conservation status is "special concern"). The combination of wetlands, riparian habitat, numerous avalanche chutes, and other higher elevation sites supporting abundant herbs and shrubs in the study area contribute to the extensive availability of high quality vegetation capable of providing abundant forage for bears during all seasons. The primary population threat to bears is hunting, followed by loss of habitat due to conversion to agriculture and human settlement, accidental death, alienation and habitat fragmentation as a result of roads, and habitat loss due to development. Understanding the number of bears that occupy an area and their interaction with various land uses in that area is the first step to their long-term management.

DNA techniques were used to estimate the number of grizzly bears that occupied the KSM study area in 2008 and 2009. DNA analyses on hair samples collected in 2008 and 2009 in the KSM study area identified 31 individual grizzly bears: 15 females and 16 males. Based on this information, and the capture and recapture rates for hair samples from bears over the 8 sampling sessions, the superpopulation (i.e., the total number of grizzly bears that used the study area during the course of the study) was estimated to be a mean of 31 females (range 11 to 50 individuals, 95% CI), and a mean of 27 males (11 to 43 individuals, 95% CI) for a total mean of approximately 58 bears (between 22 and 93) that potentially used the study area during 2008 and 2009. Home-ranges averaged 112 km<sup>2</sup>, with a maximum of 326 km<sup>2</sup>. Movements by grizzly bears can be extensive, with some bears detected at sampling stations that were nearly 70 km apart. Overall, grizzly bears used habitat that was modelled as "suitable" throughout the study area and seasonal movements along major drainages are expected.

# KSM PROJECT

## 2008 AND 2009 GRIZZLY BEAR DNA BASELINE REPORT

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## Glossary, Acronyms and Abbreviations

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Acronyms, abbreviations, and terminology used in this document are defined where they are first used. The following list of abbreviations will assist readers who may choose to review only portions of the document.

Alleles	An allele is an alternative form of a gene (one member of a pair) that is located at a specific position on a specific chromosome. These DNA codings determine distinct traits that can be passed on from parents to offspring.
Alpine	High-elevation land above the tree-line. Alpine vegetation on zonal sites is dominated by low shrubs, herbs, bryophytes and lichens. Although treeless by definition, patches of stunted (krummholz) trees may occur. Much of the alpine is covered by rock and ice rather than vegetation.
BC CDC	British Columbia Conservation Data Centre - collects and disseminates information on plants, animals and ecosystems (ecological communities) at risk at the provincial level, and is tied to NatureServe, an international, non-profit organization of cooperating Conservation Data Centres and Natural Heritage Programs all using the same methodology to gather and exchange information on the threatened elements of biodiversity.
Blue-list	A list of ecological communities, and indigenous species and subspecies of special concern in British Columbia, maintained by the BC Ministry of Environment.
COSEWIC	Committee on the Status of Endangered Wildlife in Canada - A federal committee of experts that assesses and designates the level of threat to wildlife and vegetation species in Canada.
DNA	Deoxyribonucleic acid is a nucleic acid – usually in the form of a double helix – that contains the genetic instructions monitoring the biological development of all cellular forms of life.
Ecosystem (terrestrial)	A volume of earth-space that is composed of non-living parts (climate, geologic materials, groundwater, and soils) and living or biotic parts, which are all constantly in a state of motion, transformation, and development. No size or scale is inferred.
Forb	Non-grassy herbaceous plant.
Herb	A plant, either annual, biennial or perennial, with stems that die back to the ground at the end of the growing season. Herbaceous species include forbs, graminoids (sedge, grasses, and rushes), ferns, and fern allies (e.g., horsetails).
MCP	Minimum convex polygon
Microsatellite	Long repetitious strings of noncoding DNA. Their length and the fact that they are not influenced by selection make them good genetic landmarks for DNA comparisons
Model	An idealized representation of reality developed to describe, analyze or understand the behaviour of some aspect of it a mathematical representation of the relationship under study.
Polygon	Delineations that represent discrete areas on a map, bounded by a line.

Red-list	List of ecological communities, and indigenous species and subspecies that are extirpated, endangered or threatened in British Columbia. Red listed species and sub-species have- or are candidates for- official Extirpated, Endangered or Threatened Status in BC. Not all Red-listed taxa will necessarily become formally designated. Placing taxa on these lists flags them as being at risk and requiring investigation, maintained by the BC Ministry of Environment.
Topography	The configuration of a surface, including its relief and the position of its natural and man-made features.
Wetland	Sites dominated by hydrophytic vegetation where soils are water-saturated for a sufficient length of time such that excess water and resulting low soil oxygen levels are principal determinants of vegetation and soil development (Mackenzie and Moran 2004).



# 1. Introduction

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## 1.1 PROJECT PROPONENT

The proponent for the KSM (Kerr-Sulphurets-Mitchell) Project is Seabridge Gold Inc. (Seabridge), a publicly traded junior gold company with common shares trading on the Toronto Stock Exchange in Canada and on the American Stock Exchange in the United States.

## 1.2 KSM PROJECT LOCATION

The KSM Project is a gold/copper project located in the mountainous terrain of northwestern British Columbia, approximately 950 km northwest of Vancouver, British Columbia, and approximately 65 km northwest of Stewart, British Columbia (Figure 1.2-1). The proposed Project lies approximately 20 km southeast of Barrick Gold's recently-closed Eskay Creek Mine and 30 km northeast of the Alaska border. The proposed processing plant and tailing management facility will be located about 15 km southwest of the community of Bell II on Highway 37.

The north and west parts of the Project area drain towards the Unuk River, which crosses into Alaska and enters the Pacific Ocean at Burroughs Bay. The eastern part of the Project area drains towards the Bell-Irving River, which joins the Nass River and empties into the Canadian waters of Portland Inlet. Elevations in the Project area range from under 240 m at the confluence of Sulphurets Creek with the Unuk River, to over 2,300 m at the nearby peak of the Unuk Finger.

## 1.3 KSM PROJECT DESCRIPTION

The KSM Project is a large proposed gold-copper mining project. Reserve figures released in a preliminary feasibility study announced on March 31, 2010 include 1.6 billion tonnes of ore containing 30.2 million ounces of gold, 7 billion pounds of copper, 133 million ounces of silver and 210 million pounds of copper in the proven and probable categories. This environmental baseline study was designed to address a wide range of alternatives that have been assessed from engineering and cost perspective at various times during the baseline studies. The following project description is the base case for the March 2010 Preliminary Feasibility Study. Maps in subsequent sections of this baseline report may depict slightly different footprint configurations relating to earlier designs that prevailed at the time the fieldwork was completed.

The proposed Project as defined for the purposes of this environmental baseline study will be comprised of two distinct and geographically separate areas (the mining area and processing plant and tailing management area), shown in Figure 1.3-1. The proposed mining area is located in the drainage basin of Sulphurets Creek, a major tributary of the Unuk River. The proposed location of the processing plant and tailing management facility is in the headwaters of tributaries of Teigen and Treaty Creeks, which flow to the Bell-Irving River. The two areas will be connected by a pair of parallel tunnels. An overview of these proposed mine components is provided in the following two Sections.

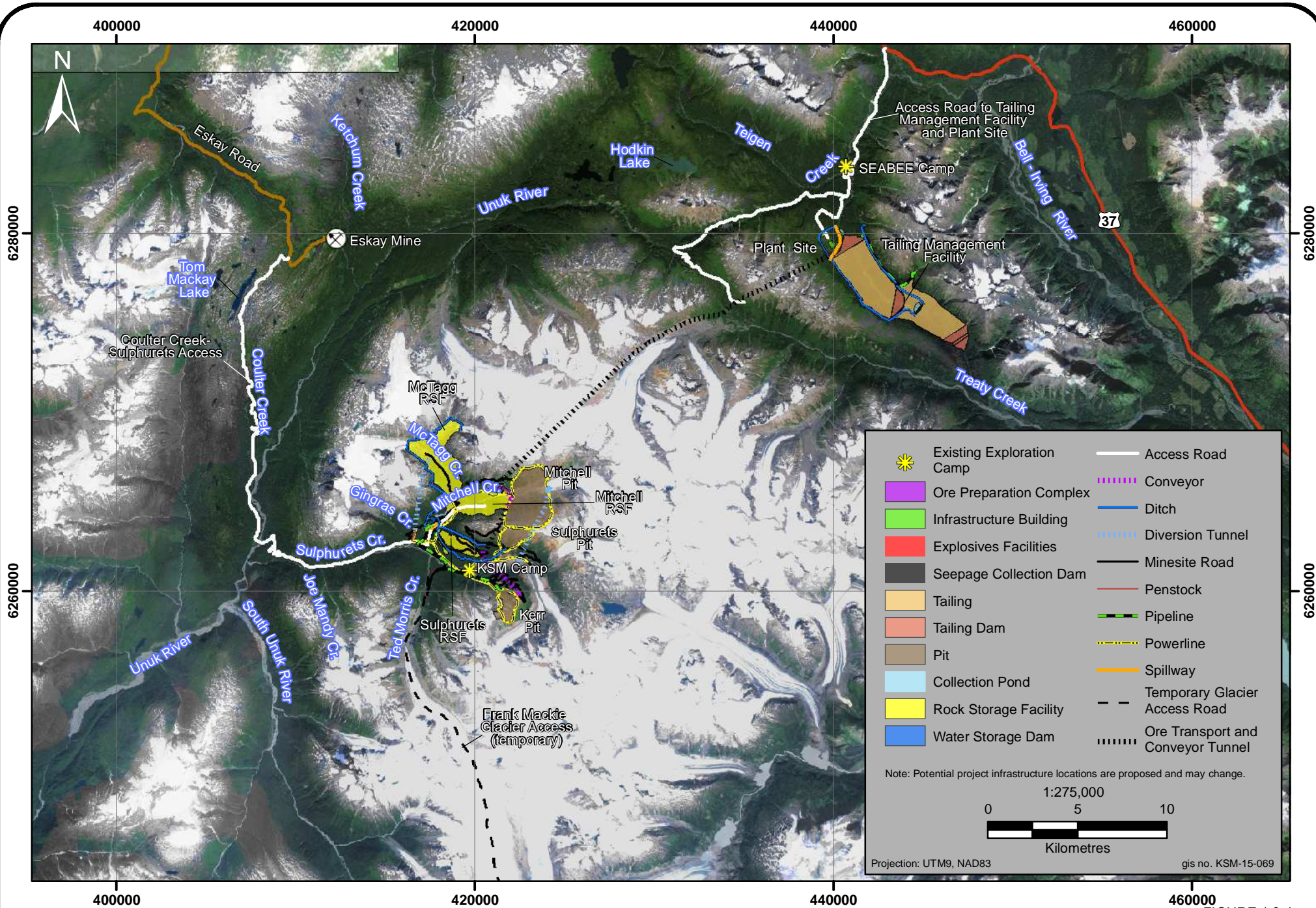
### 1.3.1 Mining Area

It is proposed that the mining area will be accessed by a new road to be constructed from the current Eskay Creek mine road. The access road will be used to transport personnel, heavy mining equipment, mining supplies, and explosives. This new road will trend southwestwards to the headwaters of Coulter Creek and then follow the general course of Coulter Creek to the Unuk River. After crossing the Unuk



FIGURE 1.2-1





River it will follow the north side of the Sulphurets Creek Valley and cross Mitchell Creek. The Unuk River is considered navigable water under the *Navigable Waters Protection Act*. Branch roads will lead to each of the Kerr, Sulphurets and Mitchell deposits. Another branch road will head south parallel to Ted Morris Creek towards the toe of the north flowing tongue of Frank Mackie Glacier to provide access to the explosives manufacturing plant and related explosives magazines.

The support facilities for the mining area are proposed in the vicinity of the confluence of Sulphurets and Mitchell creeks. They will include accommodation for mine employees and administration and maintenance facilities.

The ore deposits will be bulk mined with large shovels and trucks and will use conventional drilling and blasting methods. The Kerr deposit is located on a ridge south of Sulphurets Lake. It is proposed that ore and non-ore mined rock will be transported from the Kerr deposit by conveyor to a tunnel portal (Sulphurets Mitchell tunnel) on the north side of Sulphurets Creek. These materials will be transported through the tunnel by conveyor to the Mitchell Creek Valley where they will be transported to the ore preparation complex or the Mitchell-McTagg rock storage facilities, respectively.

The Sulphurets deposit is located on the south side of the ridge north of Sulphurets Lake. It is proposed that ore will be transported by truck to the Sulphurets Mitchell tunnel and then by conveyor to the ore preparation complex. Non-ore mined rock will be transported to the Sulphurets rock storage facility on the south side of the ridge between the Mitchell Creek and Sulphurets Creek valleys, or to the Mitchell-McTagg rock storage facilities.

The Mitchell deposit straddles the Mitchell Creek Valley in an area recently exposed by the recession of the Mitchell Glacier. Mining of the deposit is proposed on both sides of the valley and to a depth of over 400 m below the current valley bottom. Seabridge proposes to construct a diversion tunnel from near the toe of the Mitchell Glacier, southwards towards the Sulphurets Creek Valley upstream of Sulphurets Lake to divert the flow of Mitchell Creek away from the proposed open pit area. It is proposed that the significant hydraulic head created by this tunnel will be used to drive a hydro-electric plant to generate a small portion of the electricity requirements of the Project.

Large volumes of low grade or barren rock will be removed in order to access the ore in each of the deposits. Non-ore rock removed to access ore will consist of both potentially acid generating (PAG) and not potentially acid generating (not PAG) rock. Rock storage areas have been defined in the Mitchell Creek and McTagg Creek valleys and on the south-facing side of the ridge between Sulphurets Creek and Mitchell Creek valleys. Runoff and seepage from the rock storage areas will be collected in a water storage facility contained behind a dam, to be located in the lower reaches of Mitchell Creek, and treated prior to discharge to the environment. The piped flow from the storage facility to the water treatment plant may be used to drive a hydro-electric plant.

A second diversion tunnel is proposed to direct the flow of McTagg Creek to the Sulphurets Creek Valley, thus avoiding the rock storage areas. The discharge from this tunnel will be available to drive a hydro-electric plant.

A run-of-river hydro-electric plant is proposed to harness the hydraulic head of the cascade in the lower reaches of Sulphurets Creek.

Ore from the deposits will be transported to an ore preparation complex, consisting of crushing and grinding facilities and related ore storage stockpiles, located on the north side of the Mitchell Creek Valley west of the Mitchell pit. Prepared ore will be mixed with water and pumped through one of two parallel 23 km-long tunnels to the process plant, proposed to be located in the drainage of a north-

flowing tributary of Teigen Creek. The tunnels will daylight for a short distance near the divide between the Unuk River drainage and Treaty Creek before proceeding to the plant site in the Teigen Creek drainage. They will accommodate two pipelines to transport ore slurry as well as a return water pipeline, a diesel fuel pipeline, and a transmission line. The tunnels will slope towards Mitchell Creek so that all drainage can be controlled at the mine site and treated as necessary prior to release to the environment.

### 1.3.2 Processing and Tailing Management Area

The tunnel from the Mitchell Creek Valley will terminate on the south side of the valley formed by a north flowing tributary of Teigen Creek (South Teigen Creek) and a south flowing tributary of Treaty Creek (North Treaty Creek Tributary), adjacent to the plant site.

The plant will use a conventional grinding and flotation flowsheet to produce separate copper/gold and molybdenum concentrates, gold doré and tailing. It will process up to 120,000 tonnes per day of ore to produce an average of 1,200 tonnes per day of concentrate. The concentrate will be dried and transported to the port of Stewart by truck. It is anticipated that approximately 20 to 30 round trips per day will be required using 40 tonne payload trucks.

Vehicle access to the plant site will be by a 14 km long road along Teigen Creek from Highway 37. This road will require bridges to cross Teigen creek, which may be considered to be navigable water, and smaller tributaries.

The tailing will be pumped through pipelines to the tailing management facility located in the upper reaches of the Teigen Creek Valley, extending southeast over the divide into a tributary of the Treaty Creek drainage. The facility will be constructed in two phases: the north cell will be developed between a north dam, to be located across the valley of the south tributary of Teigen Creek near the plant site, and a south dam, to be located near the crest of the valley floor; and a south cell that will be retained by a southeast dam, to be located in the headwaters of the north tributary of Treaty Creek. The proposed facility will have storage capacity for the life of the Project within an area about 8 km long and 1.5 km wide. Seepage from the south and southeast dams will be pumped back into the impoundment to reduce any potential impact on the Treaty Creek drainage. Water diversion channels will be constructed on both flanks of the impoundment, where feasible, to divert clean water away from the impoundment. Supernatant water will be recovered from the impoundment using barge mounted pumps and recycled to the plant for process water. In the event that discharge is required, the excess water in the impoundment will be pumped over the northern dam towards the Teigen Creek drainage. Treatment of discharge water may be required to meet permit conditions.

It is assumed that electricity to power the plant and mine site will be obtained from the provincial electricity grid. A secondary transmission line will be constructed from a switching station, to be located near the point where Highway 37 crosses Snowbank Creek. The secondary line will follow the general alignment of the access road, to the plant site, and then pass through the tunnel to the mine site.

## 1.4 GRIZZLY BEAR BACKGROUND

### 1.4.1 Ecology

Grizzly bears (*Ursus arctos*) are found throughout British Columbia (BC), from sea level and river-valley riparian areas to high alpine regions. BC contains more than 50% of the entire Canadian population of grizzly bears (Gyug et al. 2004), with an estimated 13,800 grizzlies in the province (Gyug et al. 2004). Grizzly bears are nationally considered a species of special concern by the Committee on the Status of Endangered Species in Canada (COSEWIC 2010), and are provincially blue-listed in BC (BC CDC 2010).



Grizzly bears were selected as a focal species for baseline study because of their high profile as a species of conservation concern.

An enormous range of learned behavioural adaptations of grizzly bears to diverse regional ecosystems make generalization about their habitat requirements challenging. Some bears adopt a highly mobile, seasonally transient strategy, while others adopt a more resident strategy (Gyug et al. 2004). Some bears rely more heavily on predation, while others use higher elevation annual home ranges as opposed to migrating to lower elevations on a seasonal basis (Gyug et al. 2004). While nutritional requirements drive habitat selection, thermal cover (e.g. dens/bedding sites), security (e.g. females protecting cubs), or access to potential mates during the breeding season are additional factors in habitat choice. Habitat selection is also strongly influenced by intra-specific (social) interactions and the presence and activities of people (Gyug et al. 2004).

Grizzly bears consume a wide variety of regionally important foods, including roots and green vegetation, small and large mammals, fish, and insects. Grizzly bears are omnivorous and opportunistic in their feeding habitats. Habitat selection is governed by forage availability during the growing season, and diet also varies seasonally to make use of the most digestible foods. Forage tends to be more abundant in non-forested sites, sites with partial forest, or sites with many tree gaps in older forest (Gyug et al. 2004). However, security habitat and day bedding areas (for thermoregulation or rain interception) tend to be closed forest sites near higher quality foraging areas. In general, the largest differences in the feeding patterns are between coastal and interior grizzly bears (Gyug et al. 2004).

In the interior of BC, grizzly bears are efficient predators and scavengers but rely on a vegetative diet (Gyug et al. 2004). During spring, grizzly bears move to snow-free areas at lower elevations to feed on early green vegetation such as skunk cabbage (*Lysichiton americanum*) and sedges (*Carex* spp.) located in estuaries (near the coast), wetlands, and seepage sites. Forest openings such as meadows and herb-dominated avalanche paths along southerly exposures provide excellent foraging opportunities. Riparian areas are also heavily-used, particularly low gradient areas with back channels and meandering streams that provide favourable conditions for succulent forbs and grasses (Ash 1985). As the season advances, grizzly bears follow the receding snow up avalanche chutes and south facing slopes, feeding on emerging vegetation and roots. Later in the growing season, ripe berries attract grizzly bears down onto the floodplain and adjacent slopes where they consume devil's club (*Oploplanax horridus*), salmonberry (*Rubus spectabilis*), raspberry (*Rubus* sp.), black twinberry (*Lonicera involucrata*), elderberry (*Sambucus* sp.), and a variety of blueberries (*Vaccinium* sp.). Varying plant phenology provides a wide diversity of available plant foods that grizzly bears can exploit throughout the growing season.

In coastal areas, grizzly bears will feed on salmon as they become available in the spawning beds and continue to do so until late fall, sometimes into early December (Hilderbrand et al. 1999). Salmon may provide a resource for bears up until hibernation depending on the density of salmon species that use the area and the extent of the spawning population. After the main salmon runs, bears feed on late senescing plants, autumn berries, roots, and insects before hibernation (Ciarniello, Seip, and Heard 2003). Throughout their range, grizzly bears are also known to supplement their diet with scavenged or depredated small mammals and available ungulate species.

Various factors affect the size, shape, and degree of overlap of home ranges: age (Pearson 1975), sex (Pearson 1975, Schallenberg and Jonkel 1980), location of food sources (Pearson 1975), spring-fall critical ranges, denning sites (Craighead and Craighead 1972), individual variation, cultural transmission, human influences, and bear density (Jonkel 1987). Additionally, home ranges may be proportional to food quality, quantity, and distribution (Gyug et al. 2004). Range sizes and rates of movement across the landscape are typically greater for male than female grizzly bears, and differ

between adults and sub-adults, and between lone adult females and females with young (Servheen 1983; Blanchard and Knight 1991; Mace and Waller 1997). Generally, grizzly bear home ranges in productive coastal habitats near salmon streams are smaller than ranges in interior mountains, which are again smaller than ranges in interior plateau habitats (Gyug et al. 2004). In coastal BC, annual home ranges averaged 137 km<sup>2</sup> and 52 km<sup>2</sup> for males and females respectively (MacHutchon et al. 1993). For wet interior mountains, home ranges averaged 187 km<sup>2</sup> for males and 103 km<sup>2</sup> for females (Ciarniello et al. 2002, Simpson 1987). In drier interior mountains and plateau areas, home ranges average 804 km<sup>2</sup> for males and 222 km<sup>2</sup> for females (Ciarniello et al. 2002; McLellan 1981; Russel et al. 1979; Wielgus 1986).

Related females tend to have overlapping home ranges, while male home ranges are large and tend to overlap with several adult females (Bunnell and McCann 1993). The larger home ranges of males are more likely related to breeding than to habitat requirements for feeding (Gyug et al. 2004). Social intolerance and security needs of young bears combine to distribute bears widely over the available range (Gyug et al. 2004). Adult females may occupy marginal habitats or disturbed areas, such as road margins, where human activities exclude larger males (McLellan and Shackleton 1988). The size of individual home ranges varies annually in response to variation in quality and abundance of food (Picton et al. 1985). Bear habitat use is influenced by intraspecific interaction and human influences (Gyug et al. 2004). For example, it has been suggested that human impact may outweigh habitat quality in predicting bear densities in some areas in the central interior of BC (Mowat et al. 2002).

#### 1.4.2 DNA Mark Recapture

Estimating carnivore abundance is central to their conservation; however, options for estimating abundance are few and often require specific circumstances or assumptions that are difficult to meet (Mowat and Strobeck 2000). Wildlife researchers use various forms of ear tags, coloured bands, neck collars, radio transmitters, and natural markings to identify and track individual animals under field conditions. Each method has its advantages and limitations. The ideal mark would be non-invasive, highly visible, clearly read, inexpensive, and permanent (Woods et al. 1999). Genetic tags in the form of microsatellite genotypes have the potential to meet several of these criteria, and advances in technology are making deoxyribonucleic acid (DNA) methods accessible at the field level (Parker et al. 1998; Woods et al. 1999). In addition to individual identification, DNA samples can be used to confirm sex (Taberlet et al. 1993), species, genetic population structure (Proctor et al. 2005), and individual genealogies (Haig 1998). In typical mark-recapture studies, an initial population sample is captured, marked, and released. The population is then re-sampled during  $\geq 1$  additional session (Woods et al. 1999). Then, the ratios of newly captured animals to recaptures are used to compute a population estimate (White et al. 1982). Genetic tags can replace conventional marks in these studies if the tags reliably identify individuals during a series of sampling sessions (Woods et al. 1999).

Roots of mammalian hair contain sufficient DNA for analysis when genetic material at specific loci is amplified using the polymerase chain reaction (PCR) (Higuchi et al. 1988). For free-ranging bears, hair is an attractive DNA source because bears frequently leave hair on rub trees, in beds, and at foraging sites (Taberlet and Bouvet 1992). Because bears are readily attracted by scent lures, methods to obtain hair samples from free-ranging bears permit systematic sampling regimes necessary for many ecological studies, such as animal censuses (Woods et al. 1999).

Recently, hair removal and DNA fingerprinting have been used to mark and recapture bears (Woods et al. 1999; Poole et al. 2001, Mowat and Strobeck 2000; Boulanger et al. 2002, 2004; Proctor et al. 2005, Apps et al. 2004). This method has several benefits as individuals can be identified with a small risk of error, and hair removal sites are fast to set up and are checked less frequently than other capture methods, such as live-capture sites (Mowat and Strobeck 2000).

## 2. Objectives

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A non-invasive study using hair collection techniques was conducted over a two year period in 2008 and 2009 to determine the distribution and number of the grizzly bears within the study area. The specific objectives of the grizzly bear study were to:

- determine the distribution of grizzly bears through baited-set and trail-set hair collection stations;
- identify the number of individual grizzly bears in the study area using DNA technologies; and
- identify important grizzly habitat and areas of special importance to bears.



## 3. Methods

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### 3.1 STUDY AREA

A regional study area for all wildlife was defined for the KSM Project in 2008. For grizzly bears, the study area was partitioned into sample cells measuring 10 x 10 km (Figure 3.1-1). The size of each sample cell (100 km<sup>2</sup>) represents an estimate of the area (home range) used by local female grizzly bears (Ciarniello et al. 2002, Simpson 1987).

### 3.2 BAITED HAIR COLLECTION

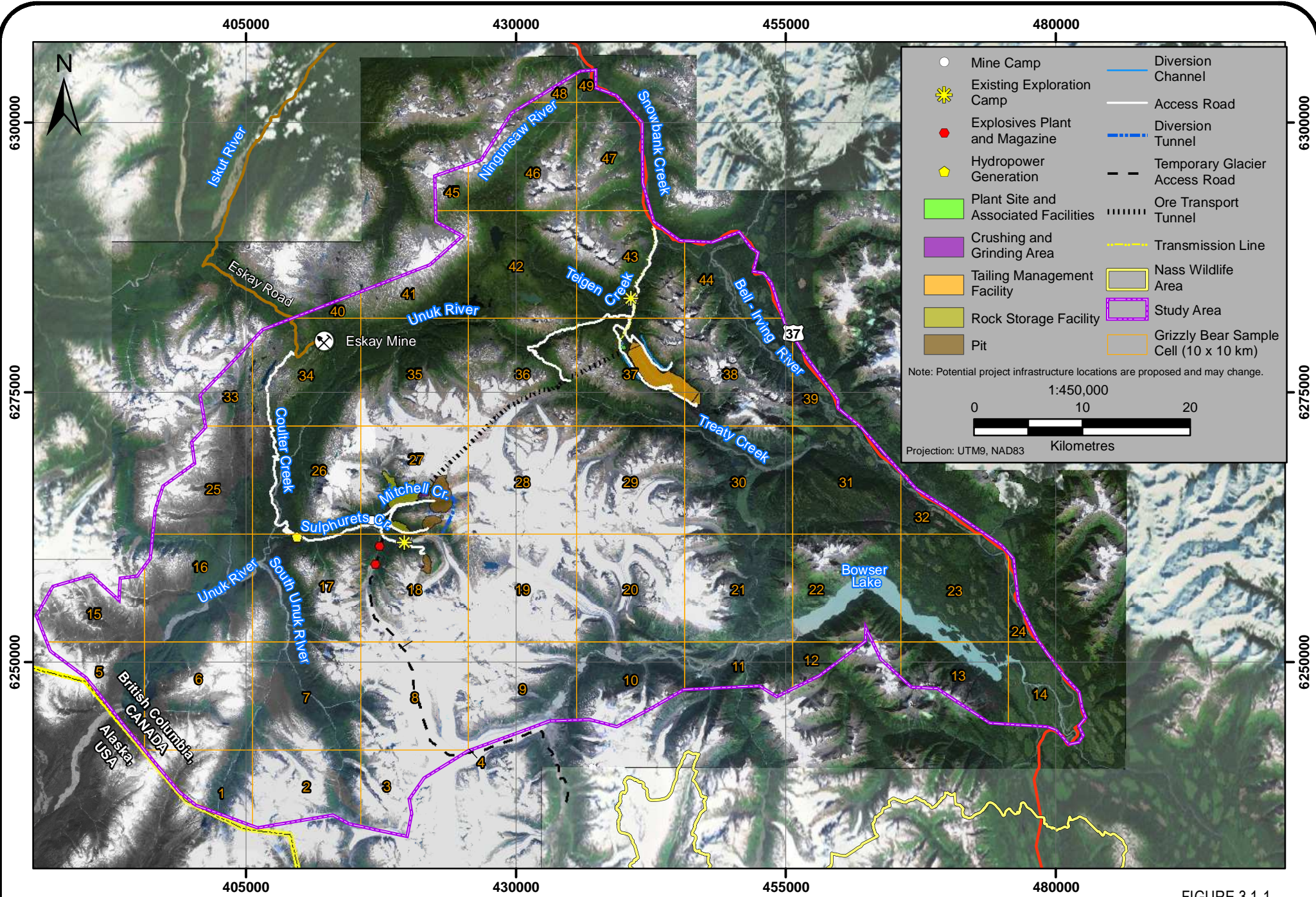
Hair samples were collected from baited hair snag stations during spring and summer in 2008 and 2009, and additionally from unbaited trail sets near salmon spawning reaches during fall of 2009. In 2009, at the request of BC MoE (hair capture permit SM09-52873), vegetation and topography were recorded at each station consistent with the provincial ground inspection form (GIF). The purpose was to use this information for evaluating habitat selection, but the use of a pungent scent lure had the potential to attract bears from more than a kilometre away to the site, limiting possible inferences on habitat selection. Similarly, sites for the fall collection effort were selected for the presence of spawning salmon, an aquatic feature not effectively captured by the terrestrial-oriented GIF data.

#### 3.2.1 Spring/Summer Hair Collection

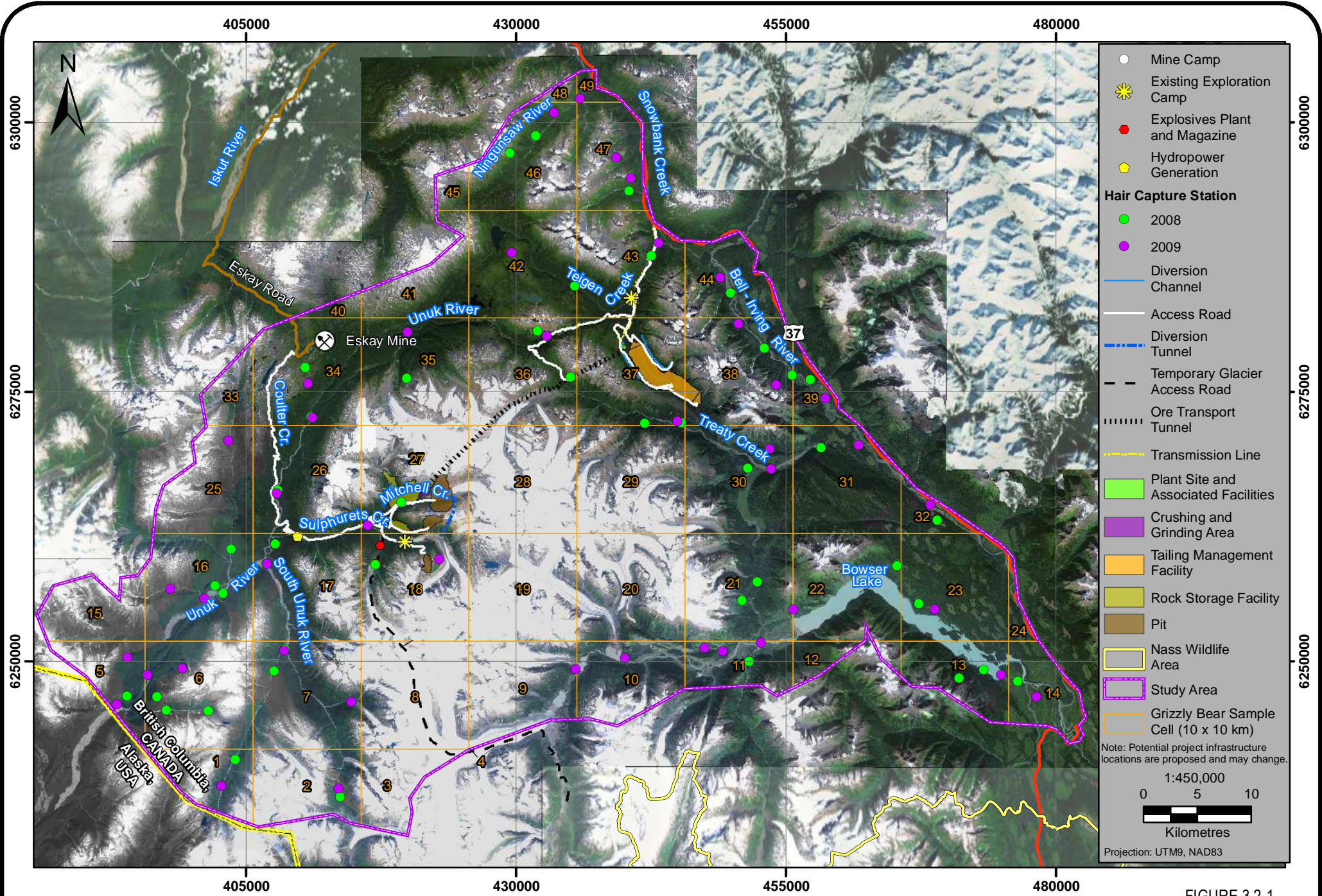
The spring/summer 2008, baited hair collection stations were placed in each 10 x 10 km sample cell (Figure 3.2-1). Stations were first set between May 29 and June 1, 2008. Within each sample cell, hair collection stations were placed in habitat most likely to be used by bears in the spring and summer. Selected locations were typically in areas of abundant herbaceous forage that was phenologically advanced. The baited collection stations were designed according to RIC standards (RIC 1998) (e.g., Plate 3.2-1). The non-reward bait consisted of a mixture of fermented livestock blood and cured fish oil. The location of each bait station was recorded with a handheld Garmin GPS 76 (advertised accuracy 3 to 15 m) and given a unique identifier.

In 2009, hair collection stations were set up between May 25 and 29, 2009, using the same sample cells as the previous year (Figure 3.2-2) and following the same procedures. However, only fermented livestock blood was used as a lure, as cured fish oil was not available at this time. Hair collection traps were placed in different locations within each cell from 2008 to increase the chances of obtaining hair from different individuals within the same area.

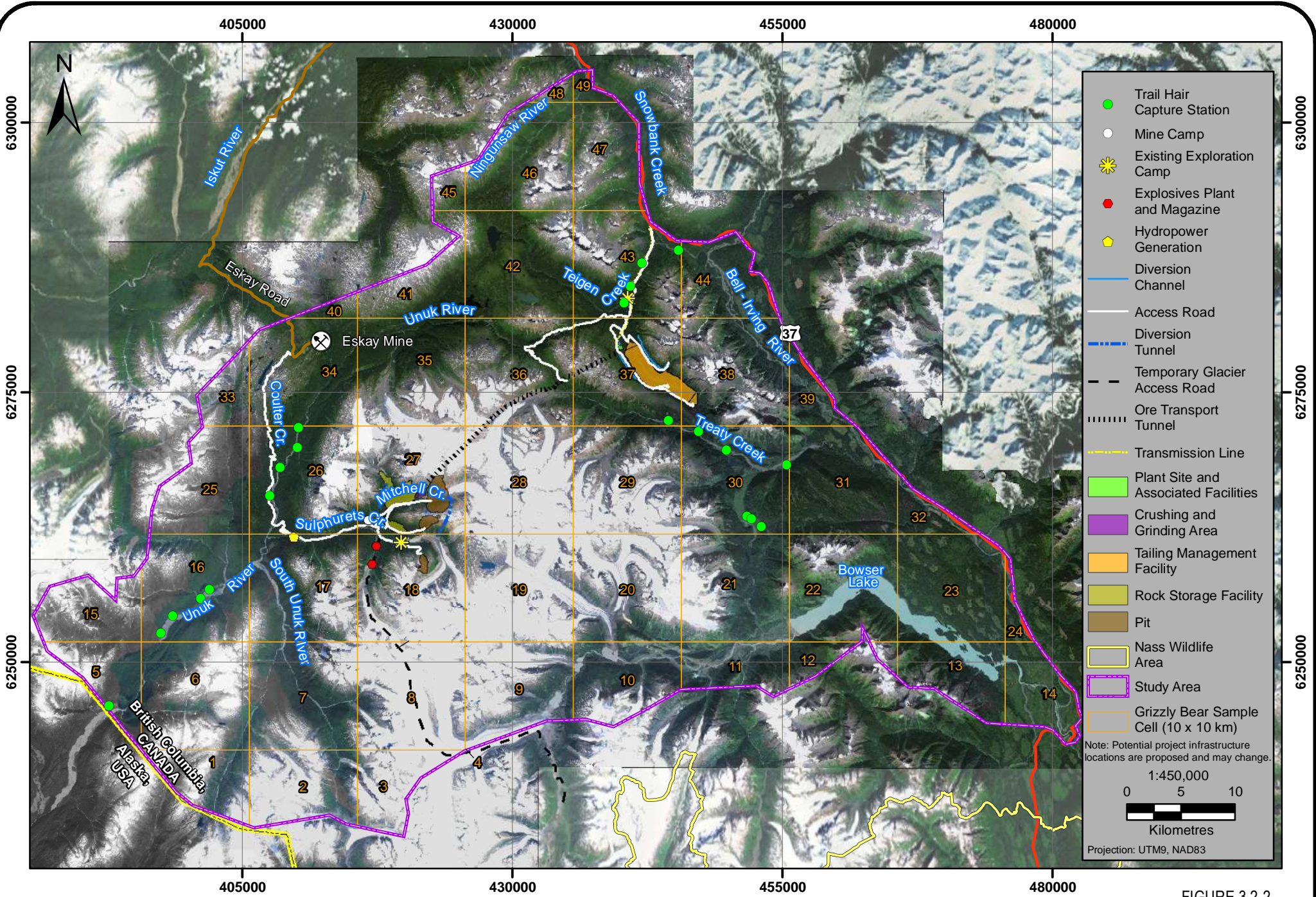
In 2008 and 2009, bait stations were checked three times at approximately two week intervals. In 2008, stations were checked between June 17-20, June 30-July 4, and July 14-18, and in 2009, stations were checked between June 8-12, June 22-26, and July 3-7. During each session, the barbed wire, the ground under stations, and natural structures that may snag hair were all searched for bear hair. Clumps of hairs found on individual barbs were placed into separate labelled coin envelopes and air dried prior to storage for subsequent analysis. The size of the hair sample and the number of consecutive barbs with attached hair were considered when selecting hair samples for genetic analyses. Hair samples clustered around consecutive barbs were assumed to be from the same bear, and therefore only one of these samples was submitted.















*Plate 3.2-1. Bear hair collection station: a baited brush pile enclosed with barbed wire.*

In the event that grizzly bear hair was collected, the collection station was dismantled and reset within the same cell, but at a distance of at least one kilometre from the previous position (Figure 3.2-1). In 2008, if no hair was collected, the collection station was re-baited and left for another session. In 2009, stations were moved regardless of whether hair was collected or not. The movement of bait stations between sessions maximizes the probability of capturing bears, and therefore improves the precision of population estimates (Boulanger et al. 2004). All barbs were burned with a propane torch to ensure that remaining hair samples were destroyed after each session. Bait stations were moved to maximize the probability of capturing as many bears as are likely to be encountered within the sample cell, and to avoid “marked” bears becoming habituated to the scent lure and collection location. All collection stations were removed after the final sessions in July, 2008 and 2009.

### 3.2.2 Fall 2009 Hair Collection

The fall 2009 hair collection session utilized non-baited trail snags (Plate 3.2-2) to collect hair from grizzly bears moving to rivers and creeks to feed on spawning Coho salmon. A total of 20 trail snags was set between October 5 and 8, 2009 (Figure 3.2-2). The snag stations were checked twice; once between October 11 and 13, and again between October 26 and 27. Hair collection and data recording were the same as during the spring/summer sessions. All trail sets were removed following the final check.

### 3.2.3 DNA Analysis

Hair samples were submitted to Wildlife Genetics International (WGI) to be analyzed (Dr. David Paetkau, Nelson, BC). Genetic analysis provides information on species, individuals, and sex, but not age. These techniques have been utilized in many studies across BC, and as a result, a sizeable genetic database has been compiled on grizzly bear populations throughout the province from which comparisons can be drawn. Individual grizzly bears identified in this project were compared to results from two adjacent inventories in the Stikine-Iskut basin and Alaska. In addition, samples from harvested grizzly bear tissue collected during compulsory inspections in 2008 and 2009 were compared to genetic results of this study.



*Plate 3.2-2. Trail set location used during the fall in 2009 to collect grizzly bear hair.*

For the identification of individual bears, DNA analyses use a suite of marker microsatellites. As many as 15 microsatellites may be used. The techniques used to identify which alleles are present in each individual are described by Paetkau et al. (1998). In general, the following microsatellites were used: G10J (used to pre-screen black bears from grizzly bears), G1A, G10B, G10X, G10P, G10M, G10U, G10H, G10L, G10C, G1D, MU59, MU50, CXX20 and CXX110. Gender was determined from hair samples using sex-specific markers.

#### 3.2.4 Population Analysis

DNA results were entered into the POPAN module within the program MARK (Cooch and White 2006) to estimate the number of bears within the study area. In building the model, it was assumed that the population was closed (i.e., no changes in population demographics) within each sampling period (spring/summer 2008 and 2009, and fall 2009), but open (individuals are free to enter or leave the population) between years and between spring/summer and fall of 2009. It was also assumed that capture probabilities for males and females differed due to variation between the sexes in home-range use and movement rates that are typical of grizzly bears; therefore, these probabilities were allowed to vary in the model. Each site check was treated as a collection session and compiled into a collection history with eight events, three each during the summers of 2008 and 2009, and two during the fall of 2009.

#### 3.2.5 Movements and Home Ranges

The two years of hair collection in conjunction with the results from adjacent inventories allowed for multiple detections of bears across the landscape. A rudimentary analysis of home range and movements was conducted using individual detections. For bears that were detected at three or more locations, minimum convex polygons (MCP) were developed to estimate minimum home range size. The distances between two or more hair samples from an individual bear were used to establish minimum length of movements.

## 4. Results

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### 4.1 BAITED COLLECTION STATIONS

During spring/summer 2008, a total of 45 hair collection stations were placed throughout the study area. There were 974 hair samples collected. Thirty seven of the 45 stations (82.2%) were successful in capturing hair, and 22 (48.9%) of the sites collected grizzly bear hair (Figure 4.1-1). Eighteen individual grizzly bears were identified.

During spring/summer 2009, a total of 43 hair collection stations were placed throughout the same study area. Thirty-seven of the 43 stations (86.0 %) were successful in capturing hair, and 12 sites (27.9%) collected grizzly bear hair (Figure 4.1-2). Thirteen individual grizzly bear were identified, including four that had previously been marked in 2008. While general hair collection was close to the same success rate as that of the 2008 study, success for grizzly bears in particular was reduced, possibly related to the deeper and more persistent snow pack experienced in 2009 compared to 2008. Overall in 2009, there were only 378 samples collected. On average, samples collected in 2009 also had fewer guard hairs (0.8 guard hair / sample) than 2008 (3.2 guard hairs / sample).

### 4.2 FALL TRAIL SET HAIR COLLECTION

Fall sampling along trails was conducted between October 6 and 27, 2009, along the Unuk River, Teigen Creek, and Treaty Creek. There were 20 locations selected for trail sets (Figure 4.2-1.). A total of 61 hair samples were collected. Nine (45%) of the trail set stations collected hair, and seven (35%) were successful at capturing grizzly bear hair. Seven individual bears were identified. Grizzly bears were detected on each of the Unuk, Teigen, and Treaty drainages and their major tributaries. Three of the grizzly bears were identified previously during the summer of 2008 or 2009 sampling periods (Table 4.2-1).

### 4.3 MOVEMENTS AND HOME RANGES

Grizzly bears were identified throughout the study area during both 2008 and 2009 spring/summer hair collection efforts. Detections were relatively consistent between the years; however in 2009, there appeared to be some detections at higher elevations along the drainages than in 2008, possibly related to the deeper and more persistent snow pack in 2009. During fall 2009, five of the seven individual grizzly bears identified were observed along the Unuk River, one bear was identified on the Todedada Creek, and the other bear was detected on Teigen Creek just upstream of the Seabee camp. One male was detected on the Unuk River and then at Todedada Creek, over 42 km away, crossing nearly the entire study area during the three weeks of the fall hair collection period.

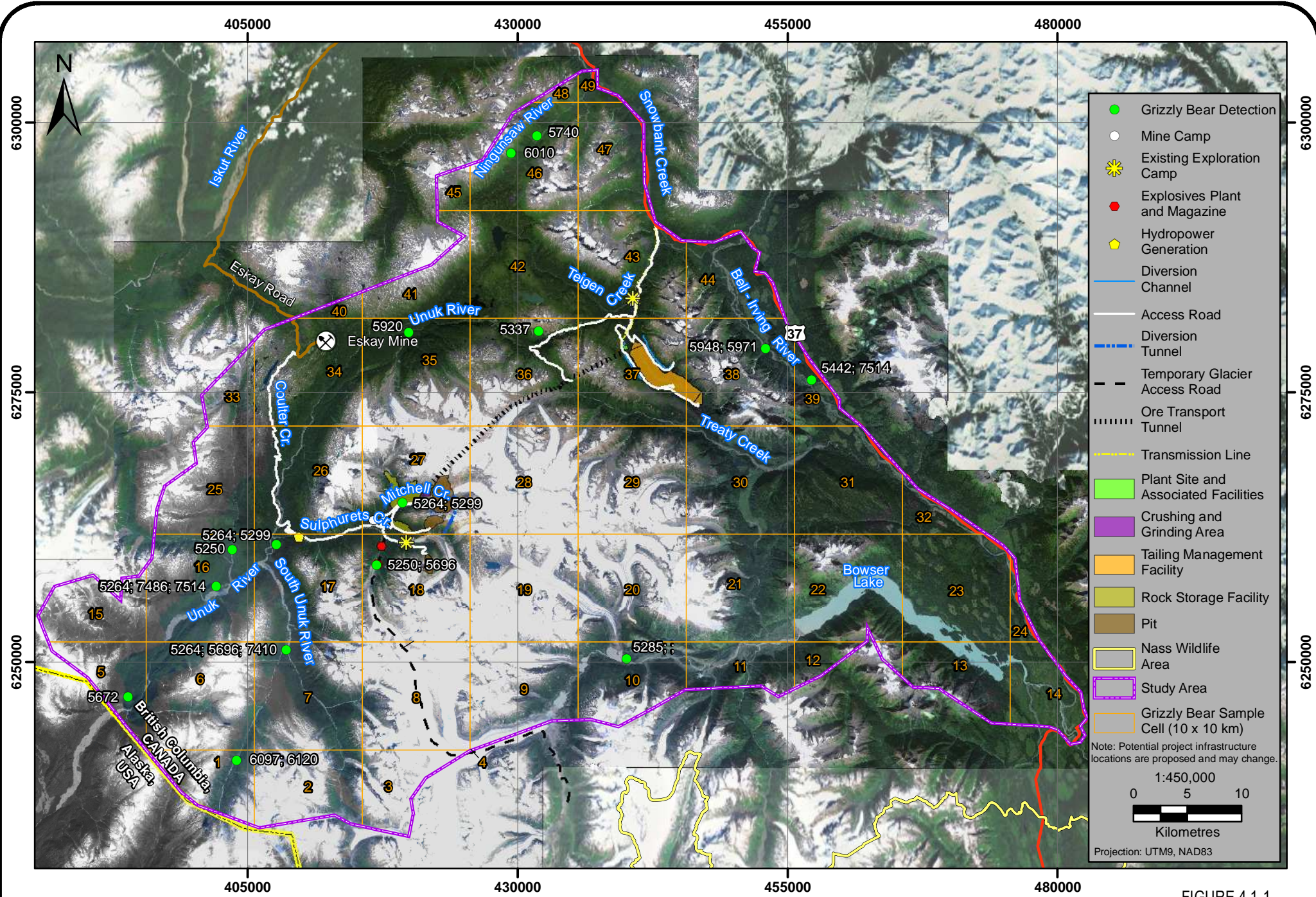
Four grizzly bears identified during this study were also identified in previous studies of grizzly bear populations in neighbouring study areas. Two female bears were originally found in the Galore Creek study area (RTEC 2006), one first identified in 2004 and 2006 in the Iskut/Stikine, and found during this study in 2008 in the upper Unuk River, near Unuk Lake. The other was first identified in 2004 in the Iskut / Stikine, and subsequently found again in the upper Ningansaw in 2008.

Table 4.2-1 Summary of Individual Grizzly Bears Identified in the Study Area during Sampling Sessions, 2008 and 2009

Grizzly Bear ID	sex	Spring 2008	Summer 2008		Spring 2009	Summer 2009		Fall 2009	
		Jun 17-20, 2008	Jun 30-Jul 4, 2008	Jul 14-18, 2008	Jun 8-12, 2009	Jun 22-26, 2009	Jul 3-7, 2009	Oct 11-13, 2009	Oct 26-27, 2009
5264	F	X	X	X		X			X
5971	F			X		X			
8006	F								X
5920	F		X						
6010	F		X						
7514	F	X							
5285	F	X							
5337	F	X							
5672	F	X							
6120	F			X					
5948	F			X					
6485	F						X		
6441	F						X		
6336	F					X			
7987	F							X	X
5250	M	X		X					X
6217	M					X			
5442	M	X							
7486	M	X							
7410	M			X					
5299	M	X	X		X				
5696	M		X			X			
5740	M		X						
6097	M			X					
6192	M				X				
6214	M				X				
6486	M					X	X	X	
6425	M						X		
6338	M					X			
6520	M							X	X
7991	M								X

X = Individual grizzly bear identified during sampling session





- Grizzly Bear Detection
- Mine Camp
- ✦ Existing Exploration Camp
- Explosives Plant and Magazine
- ⬠ Hydropower Generation
- Diversion Channel
- Access Road
- - - Diversion Tunnel
- - - Temporary Glacier Access Road
- ⋯ Ore Transport Tunnel
- - - Transmission Line
- Plant Site and Associated Facilities
- Crushing and Grinding Area
- Tailing Management Facility
- Rock Storage Facility
- Pit
- Nass Wildlife Area
- Study Area
- Grizzly Bear Sample Cell (10 x 10 km)

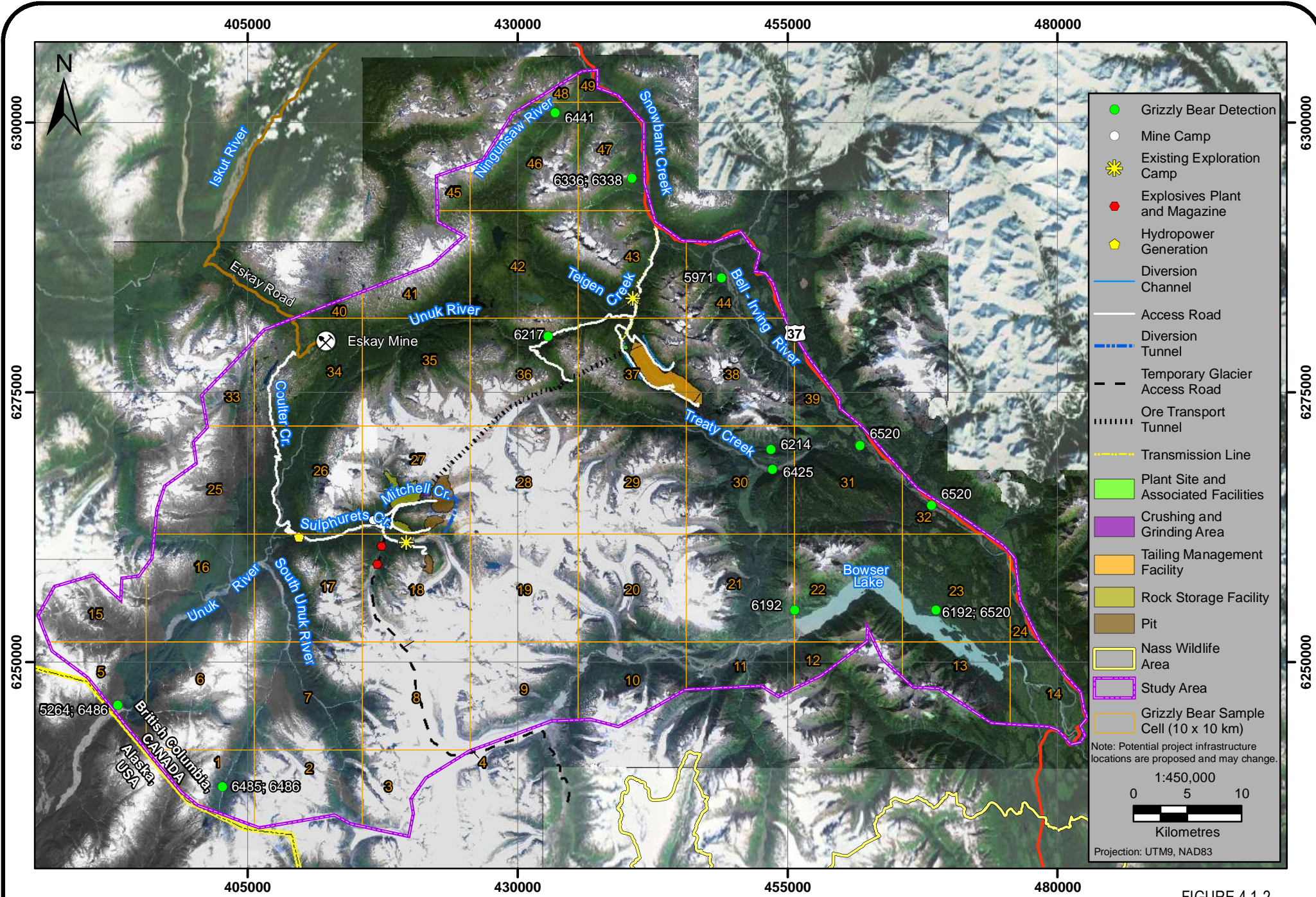
Note: Potential project infrastructure locations are proposed and may change.

1:450,000

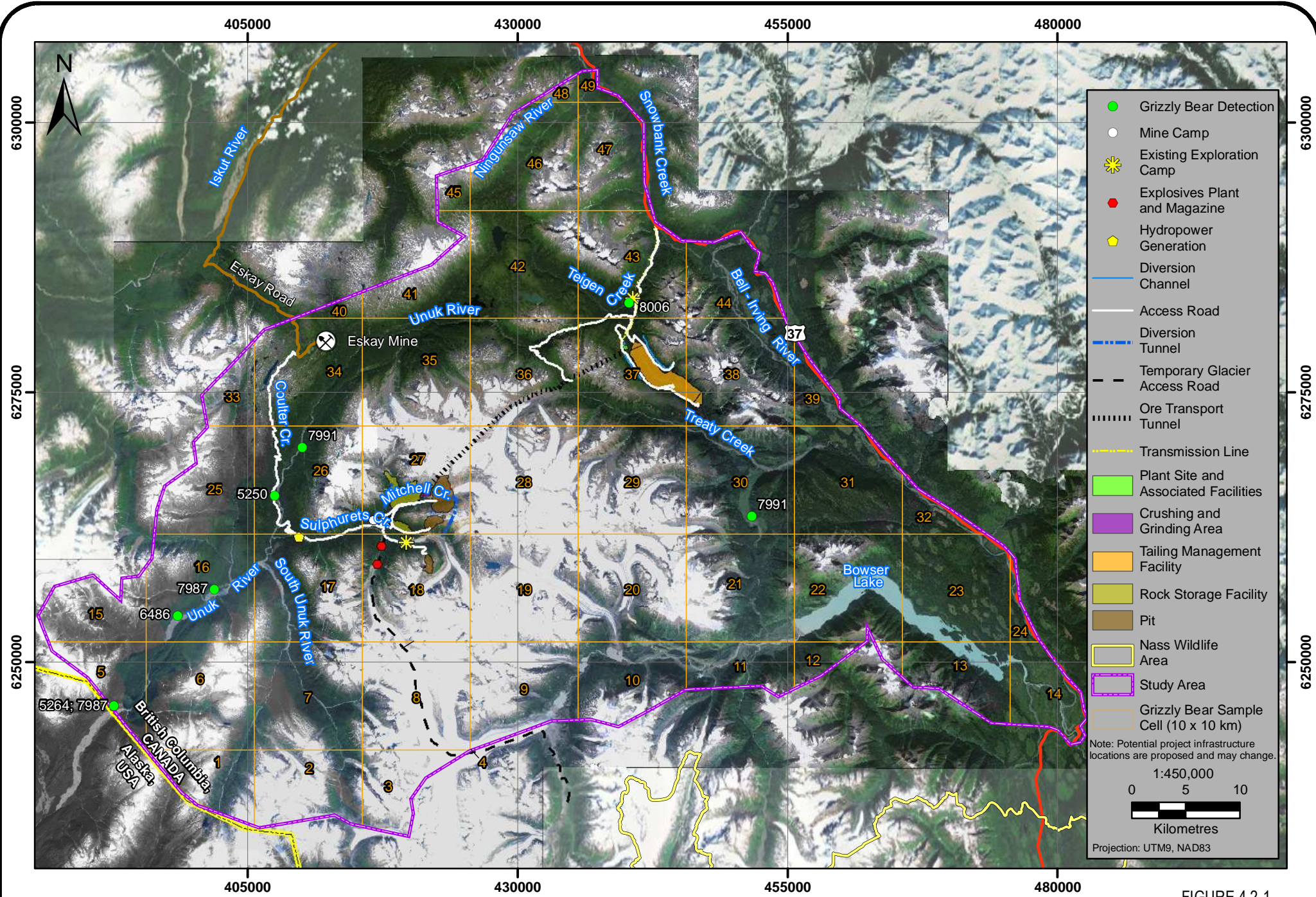
0 5 10  
Kilometres

Projection: UTM9, NAD83









SEABRIDGE GOLD

# Grizzly Bear Detections, Fall 2009

FIGURE 4.2-1  
**Rescan**™

Another female and a male appear to have moved over from Alaska (Flynn et al. 2007). The female was detected in 2009 in the upper Gracey Creek. This bear had been captured in the lower Unuk River in 2004 and fitted with a radio-collar. She was estimated to be four years old at that time. She was captured again in 2006 and re-collared. Alaskan radio-telemetry studies located this bear at over 11,000 locations (R. Flynn, pers comm.) throughout the Unuk, South Unuk, and Gracey Creek watersheds. The male had originally been detected from a hair snagging study at Cripple Creek on the lower Unuk River in August 2007. It was detected again at three locations along the Unuk River during the fall of 2009. This included a location at the international border on the Unuk River, one above Coulter Creek on the Unuk, and a final observation below the confluence of Storie Creek and Unuk Rivers.

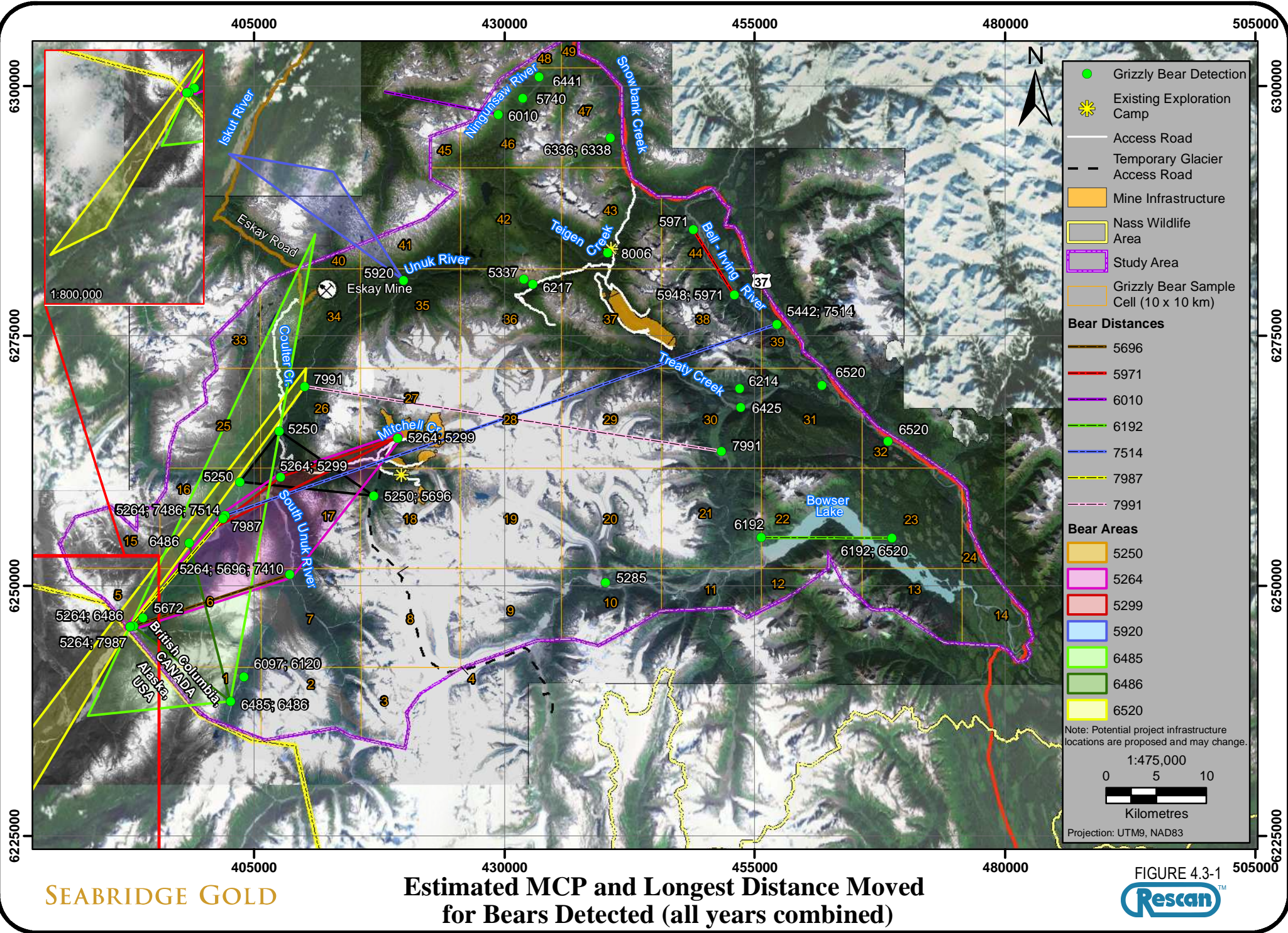
While the data set was modest, analysis of movements was attempted using the information from the detection of individual bears (Figure 4.3-1). Seven of the bears were detected at three or more locations and MCPs were calculated to represent minimum home ranges. Average MCP of these bears was 112 km<sup>2</sup> (standard deviation = 108 km<sup>2</sup>). The maximum distances between observations were calculated for the 14 bears with two or more detections. The average distance was 29 km (standard deviation = 20km). The distances between observations were calculated for 14 bears with two or more detections. The average distance was 29 km ( $\pm$  20 km, SD) with a maximum distance between detections of 68 km. Bears 7991 and 7514 both travelled nearly the entire west to east width of the study area with bear 7514 being detected near the Unuk River and the Bell-Irving River between May 30 and June 19, 2008.

#### 4.4 DNA AND POPULATION ANALYSIS

The results from analysis of the hair samples collected in 2008 and 2009 identified 31 individual grizzly bears: 18 in 2008 and an additional 13 in 2009. This total included four bears identified previously in Alaska and in the Lower Iskut River and Stikine River areas. There were 15 females and 16 males. The identification histories of these 31 bears and estimates of derived parameters, such as capture probabilities and rates of new captures, were incorporated into POPAN to estimate the number of bears in the study area. The superpopulation estimate (i.e., the total number of bears that used the study area during the course of the study) was 31 females (range 11-50 95% CI), and 27 males (11-43 95% CI) for a total of 58 bears (22 to 93) that used the study area during 2008 and 2009.

During the course of the study, 25 grizzly bears were harvested by hunters in the vicinity of the study area. Grizzly bears harvested in BC require a Compulsory Inspection by government officials to collect information about each bear, including tissue samples. DNA records from harvested bears were compared to the results of this study. Six of the 25 bears were harvested within the KSM study area, all within 6 km of highway 37 in the north east of the study area. None of the harvested bears were individuals identified in this study. Three of the harvested bears had previously been identified during studies in the Stikine-Iskut basin; Galore bear 007, 1535, and 7604 (unpubl data, D Paetkau, WGI, Nelson BC). All three were taken near Bob Quinn Lake. The sensitivity of the data precludes revealing exact locations of harvest.





SEABRIDGE GOLD

Estimated MCP and Longest Distance Moved for Bears Detected (all years combined)

FIGURE 4.3-1  
Rescan™

## 5. Discussion

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There was an estimated 58 grizzly bears that utilized the KSM study area between 2008 and 2009. Movements from the Stikine-Iskut basin and Alaska suggest this is an open population. The detection of grizzly bears using DNA mark-recapture analysis on snagged hair samples revealed valuable information about grizzly bear distribution and their use of the KSM study area.

This study combined techniques of baited hair snare stations during the spring/summer period and trail sets along salmon streams during the fall to maximize the likelihood a particular bear might be sampled. Published studies of coastal grizzly bears indicate they are highly reliant on salmon resources (Boulanger et al., 2004b). Grizzly bear numbers are estimated to range from 22 to 66 individuals in the Owikeno Lake and Rivers Inlet areas south of Bella Coola, BC (Boulanger et al. 2004b), comparable to numbers observed in the KSM study area.

Large scale movements across the study area suggest that delineation of coastal and interior sub-populations, such as that observed in the Stikine-Iskut basin is unlikely (RTEC 2006). Two bears travelled in excess of 40 km each from one side of the study area to the other, and large home ranges occupied by other bears suggest that bears travel extensive distances.



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## **Appendix 1**

Grizzly Bear DNA Hair Snag Locations and Detections,  
2008 and 2009

Appendix 1. Grizzly Bear DNA Hair Snag Locations and Detections, 2008 and 2009

SamplePeriod	site_num	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Number of chks	Final date	Grizzly detected?	GB ided	GB ided 2	GB ided 3
2008 Summer	0	18	1	9	416951	6259013	56.46826057	130.3480365	001	29/05/2008	HE	Bait Set	1	29/05/2008	3	18/07/2008	Y	5250	5696	
2008 Summer	0	27	1	9	419331	6264850	56.52115901	130.3111636	002	29/05/2008	HE	Bait Set	1	29/05/2008	3	16/07/2008	Y	5264	5299	
2008 Summer	0	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	Y	5264	5299	
2008 Summer	0	7	1	9	408602	6251126	56.39589725	130.4806757	004	30/05/2008	HE	Bait Set	1	30/05/2005	2	01/07/2008	Y	5264	5696	7410
2008 Summer	0	2	1	9	413702	6237487	56.27437801	130.3936453	005	30/05/2008	HE	Bait Set	1	30/05/2005	3	18/07/2008				
2008 Summer	0	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	Y	5264	7486	7514
2008 Summer	0	26	1	9	407913	6265981	56.52909868	130.4971228	007	30/05/2008	HE	Bait Set	1	30/05/2008	3	18/07/2008				
2008 Summer	0	6	1	9	397582	6245483	56.34302488	130.6569661	008	30/05/2008	HE	Bait Set	1	30/05/2005	2	01/07/2008				
2008 Summer	0	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	Y	5672		
2008 Summer	0	25	1	9	403580	6260444	56.47859537	130.5654897	010	30/05/2008	HE	Bait Set	2	30/05/2008	3	18/07/2008	Y	5250		
2008 Summer	0	34	1	9	410996	6272722	56.59029739	130.4492971	011	31/05/2008	HE	Bait Set	1	31/05/2008	2	03/07/2008				
2008 Summer	0	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	Y	5920		
2008 Summer	0	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	Y	5337		
2008 Summer	0	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/07/2008				
2008 Summer	0	46	1	9	431808	6298823	56.8282121	130.1173697	015	31/05/2008	HE	Bait Set	2	17/06/2005	2	18/07/2008	Y	5740		
2008 Summer	0	47	1	9	440437	6293681	56.78330622	129.9748043	016	31/05/2008	HE	Bait Set	1	31/05/2008	3	18/07/2008				
2008 Summer	0	43	1	9	442478	6287666	56.72944536	129.9400927	017	31/05/2008	HE	Bait Set	1	31/05/2008	2	01/07/2008				
2008 Summer	0	44	1	9	449829	6284240	56.69953035	129.8193094	018	31/05/2008	HE	Bait Set	1	31/05/2008	2	01/07/2008				
2008 Summer	0	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	Y	5948	5971	
2008 Summer	0	31	1	9	458207	6269911	56.57164179	129.6802139	020	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008				
2008 Summer	0	30	1	9	451419	6267937	56.55330688	129.790307	021	31/05/2008	HE	Bait Set	1	31/05/2008	3	16/07/2008				
2008 Summer	0	37	1	9	445221	6272176	56.59064063	129.8919488	022	01/06/2008	HE	Bait Set	1	01/06/2008	1	20/06/2008				
2008 Summer	0	21	1	9	450885	6255659	56.44288377	129.7966637	023	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008				
2008 Summer	0	10	1	9	440095	6250315	56.39359675	129.97026	024	01/06/2008	HE	Bait Set	2	01/06/2008	3	16/07/2008	Y	5285		
2008 Summer	0	39	1	9	457203	6276198	56.62795468	129.6975542	025	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008	Y	5442	7514	
2008 Summer	0	32	1	9	468927	6263122	56.51150876	129.504945	026	01/06/2008	HE	Bait Set	1	01/06/2008	3	17/07/2008				
2008 Summer	0	23	1	9	467262	6255396	56.44199604	129.5309279	027	01/06/2008	HE	Bait Set	1	01/06/2008	3	17/07/2008				
2008 Summer	0	13	1	9	473244	6249265	56.38725878	129.4333443	028	01/06/2008	HE	Bait Set	1	01/06/2008	2	02/07/2008				
2008 Summer	0	14	1	9	476416	6248186	56.37771204	129.3818915	029	01/06/2008	HE	Bait Set	1	01/06/2008	3	17/07/2008				
2008 Summer	0	22	1	9	465241	6258896	56.47322617	129.5642633	030	01/06/2008	HE	Bait Set	1	01/06/2008	3	17/07/2008				
2008 Summer	0	11	1	9	451539	6250013	56.39222187	129.7849768	031	01/06/2008	HE	Bait Set	1	01/06/2008	3	16/07/2008				
2008 Summer	0	16	2	9	402837	6256334	56.44150998	130.5759873	032	17/06/2008	HE	Bait Set	1	17/06/2008	2	18/07/2008				
2008 Summer	0	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2008	2	18/07/2008	Y	6097	6120	
2008 Summer	0	17	2	9	406866	6259028	56.46651923	130.5116261	034	18/06/2008	HE	Bait Set	1	18/06/2008	2	18/07/2008				
2008 Summer	0	21	2	9	452299	6257416	56.45882657	129.7740491	035	19/06/2008	HE	Bait Set	1	19/06/2008	2	16/07/2008				
2008 Summer	0	39	2	9	455523	6276623	56.63176971	129.7250194	036	19/06/2008	HE	Bait Set	1	19/06/2008	1	02/07/2008				
2008 Summer	0	37	2	9	441878	6272097	56.58953162	129.9464027	037	20/06/2008	HE	Bait Set	1	20/06/2008	2	16/07/2008				
2008 Summer	0	36	2	9	435041	6276418	56.62745495	130.0587909	038	20/06/2008	HE	Bait Set	1	20/06/2008	1	02/07/2008				
2008 Summer	0	5	2	9	396711	6246746	56.35410483	-130.6715298	039	01/07/2008	HE	Bait Set	1	01/07/2008	1	18/07/2008				
2008 Summer	0	6	2	9	401460	6245390	56.34300694	130.5942273	040	01/07/2008	HE	Bait Set	1	01/07/2008	1	18/07/2008				
2008 Summer	0	7	2	9	407545	6249151	56.37794414	130.4971182	041	01/07/2008	HE	Bait Set	1	01/07/2008	1	18/07/2008				
2008 Summer	0	13	2	9	470945	6248489	56.38014497	129.4704934	043	02/07/2008	HE	Bait Set	1	02/07/2008	1	17/07/2008				
2008 Summer	0	46	2	9	429392	6297179	56.81311067	130.1565491	044	01/07/2008	HE	Bait Set	1	01/07/2008	1	17/07/2008	Y	6010		
2008 Summer	0	35	2	9	419838	6276284	56.62389072	130.3064671	045	02/07/2008	HE	Bait Set	1	02/07/2008	1	17/07/2008				
2008 Summer	0	34	2	9	410468	6277340	56.6316848	130.4595025	046	03/07/2008	HE	Bait Set	1	03/07/2008	1	17/07/2008				
2009 Fall	0	43	1	9	440893	6284866	0	0	11	06/10/2009	HE	Trail Set	1	06/10/2009	2	27/10/2009				
2009 Fall	0	43	2	9	441967	6287029	0	0	12	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009				
2009 Fall	0	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	Y	5264	7987	6520
2009 Fall	0	16	1	9	397432	6252715	0	0	14	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009				
2009 Fall	0	16	2	9	398548	6254326	0	0	15	06/10/2009	HE	Trail Set	1	10/10/2009	2	26/10/2009	Y	6486		
2009 Fall	0	16	3	9	401122	6255886	0	0	16	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009				
2009 Fall	0	16	4	9	401912	6256732	0	0	17	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	Y	7987		
2009 Fall	0	26	1	9	407522	6265497	0	0	18	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	Y	5250		
2009 Fall	0	26	2	9	410063	6269939	0	0	19	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	Y	7991	6520	
2009 Fall	0	26	3	9	408489	6268074	0	0	20	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009				

Appendix 1. Grizzly Bear DNA Hair Snag Locations and Detections, 2008 and 2009

SamplePeriod	site_num	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Number of chks	Final date	Grizzly detected?	GB ided	GB ided 2	GB ided 3
2009 Fall	0	34	1	9	410200	6271758	0	0	21	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009		6520		
2009 Fall	0	30	1	9	455354	6268338	0	0	22	07/10/2009	HE	Trail Set	1	07/10/2009	2	27/10/2009				
2009 Fall	0	30	2	9	451663	6263497	0	0	23	07/10/2009	HE	Trail Set	1	07/10/2009	2	27/10/2009	Y	7991		
2009 Fall	0	30	3	9	452092	6263318	0	0	24	07/10/2009	HE	Trail Set	1	07/10/2009	2	27/10/2009				
2009 Fall	0	21	1	9	452997	6262543	0	0	25	07/10/2009	HE	Trail Set	1	07/10/2009	2	27/10/2009				
2009 Fall	0	30	4	9	449774	6269677	0	0	26	07/10/2009	HE	Trail Set	1	07/10/2009	2	27/10/2009				
2009 Fall	0	30	5	9	447168	6271441	0	0	27	07/10/2009	HE	Trail Set	1	07/10/2009	2	27/10/2009				
2009 Fall	0	37	1	9	444394	6272395	0	0	28	07/10/2009	HE	Trail Set	1	07/10/2009	2	27/10/2009				
2009 Fall	0	43	3	9	440312	6283350	0	0	29	08/10/2009	HE	Trail Set	1	08/10/2009	2	27/10/2009	Y	8006		
2009 Fall	0	43	4	9	445325	6288196	0	0	30	08/10/2009	HE	Trail Set	1	08/10/2009	2	27/10/2009				
2009 Summer	0	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	Y	5264	6486	
2009 Summer	0	11	1	9	395815	6248758	0	0	002	26/05/2009	HE	Bait Set	1	26/05/2009	3	04/07/2009				
2009 Summer	0	21	1	9	401120	6255849	0	0	003	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009				
2009 Summer	0	22	1	9	406902	6259037	0	0	004	26/05/2009	HE	Bait Set	1	26/05/2009	3	04/07/2009				
2009 Summer	0	33	1	9	416262	6262645	0	0	005	26/05/2009	HE	Bait Set	1	26/05/2009	3	04/07/2009				
2009 Summer	0	12	1	9	408514	6251044	0	0	006	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009				
2009 Summer	0	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	3	04/07/2009				
2009 Summer	0	42	1	9	411088	6272679	0	0	008	26/05/2009	HE	Bait Set	1	26/05/2009	2	24/06/2009				
2009 Summer	0	55	1	9	443138	6288864	0	0	009	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009				
2009 Summer	0	56	1	9	448858	6285669	0	0	010	26/05/2009	HE	Bait Set	1	26/05/2009	3	04/07/2009	Y	5971		
2009 Summer	0	19	1	9	478126	6246726	0	0	011	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009				
2009 Summer	0	18	1	9	474857	6248763	0	0	012	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009				
2009 Summer	0	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	Y	6192	6520	
2009 Summer	0	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	Y	6192		
2009 Summer	0	26	1	9	452616	6251758	0	0	015	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009				
2009 Summer	0	16	1	9	447405	6251274	0	0	016	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009				
2009 Summer	0	15	1	9	440064	6250309	0	0	017	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009				
2009 Summer	0	36	1	9	453445	6269799	0	0	018	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	Y	6214		
2009 Summer	0	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	Y	6520		
2009 Summer	0	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	3	04/07/2009				
2009 Summer	0	38	1	9	468290	6264539	0	0	021	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	Y	6520		
2009 Summer	0	47	1	9	458606	6274435	0	0	022	28/05/2009	HE	Bait Set	1	28/05/2009	3	05/07/2009				
2009 Summer	0	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009				
2009 Summer	0	45	1	9	444900	6272301	0	0	024	28/05/2009	HE	Bait Set	1	28/05/2009	3	05/07/2009				
2009 Summer	0	43	1	9	419909	6280614	0	0	025	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009				
2009 Summer	0	44	1	9	432835	6280219	0	0	026	28/05/2009	HE	Bait Set	1	28/05/2009	2	23/06/2009	Y	6217		
2009 Summer	0	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	Y	6441		
2009 Summer	0	11	2	9	399045	6249381	0	0	031	09/06/2009	HE	Bait Set	1	06/09/2009	1	23/06/2009				
2009 Summer	0	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	2	04/07/2009	Y	6485	6486	
2009 Summer	0	12	2	9	414715	6246283	0	0	033	10/06/2009	HE	Bait Set	1	10/06/2009	2	04/07/2009				
2009 Summer	0	16	2	9	449083	6250969	0	0	034	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009				
2009 Summer	0	36	2	9	453584	6267921	0	0	035	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009	Y	6425		
2009 Summer	0	14	1	9	435485	6249305	0	0	036	11/06/2009	HE	Bait Set	1	11/06/2009	1	05/07/2009				
2009 Summer	0	2	1	9	413548	6238254	0	0	037	06/11/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009				
2009 Summer	0	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009				
2009 Summer	0	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009				
2009 Summer	0	54	1	9	429537	6287992	0	0	040	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009				
2009 Summer	0	65	1	9	440597	6294848	0	0	041	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	Y	6336	6338	
2009 Summer	0	65	2	9	439277	6296755	0	0	052	25/06/2009	HE	Bait Set	1	25/06/2009	1	04/07/2009				
2009 Summer	0	46	2	9	454046	6275739	0	0	054	25/06/2009	HE	Bait Set	1	25/06/2009	1	04/07/2009				
2009 Summer	0	20	1	9	393986	6250376	0	0	061	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009				
2009 Summer	0	23	1	9	422826	6259485	0	0	063	24/06/2009	HE	Bait Set	1	24/06/2009	1	04/07/2009				
2009 Summer	0	42	2	9	410715	6275839	0	0	067	24/06/2009	HE	Bait Set	1	24/06/2009	1	04/07/2009				

## Appendix 2

Grizzly Bear Hair Samples and DNA Results, 2008 and  
2009

Appendix 2. Grizzly Bear Hair Samples and DNA Results, 2008 and 2009

SamplePeriod	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Chk_Num	Chk_Date	Sample	Group	Barb_Num	Location	Grizzly ID
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	1	07/01/2008	5630	R	1	W	
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	1	07/01/2008	5635	R	2	W	
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	1	07/01/2008	5636	Q	1	W	
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	1	07/01/2008	5748	A	1	W	
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	1	07/01/2008	5749	B	1	W	
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	2	18/07/2008	6095	J	1	W	
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	2	18/07/2008	6096	K	1	W	
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	2	18/07/2008	6097	L	1	W	6097
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	2	18/07/2008	6102	R	1	W	
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	2	18/07/2008	6103	R	2	W	
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	2	18/07/2008	6104	R	3	W	
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	2	18/07/2008	6120	A	2	W	6120
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	2	18/07/2008	6121	A	1	W	
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033	18/06/2008	HE	Bait Set	1	18/06/2005	2	18/07/2008	6122	A	3	W	
2008 Summer	1	1	9	403992	6240913	56.30325316	130.551637	033												
2008 Summer	2	1	9	413702	6237487	56.27437801	130.3936453	005	30/05/2008	HE	Bait Set	1	30/05/2005	1	18/06/2008					
2008 Summer	2	1	9	413702	6237487	56.27437801	130.3936453	005	30/05/2008	HE	Bait Set	1	30/05/2005	2	07/01/2008	5631	R	1	W	
2008 Summer	2	1	9	413702	6237487	56.27437801	130.3936453	005	30/05/2008	HE	Bait Set	1	30/05/2005	2	07/01/2008	5731	A	2	W	
2008 Summer	2	1	9	413702	6237487	56.27437801	130.3936453	005	30/05/2008	HE	Bait Set	1	30/05/2005	2	07/01/2008	5733	A	1	W	
2008 Summer	2	1	9	413702	6237487	56.27437801	130.3936453	005	30/05/2008	HE	Bait Set	1	30/05/2005	3	18/07/2008	6089	A	1	W	
2008 Summer	2	1	9	413702	6237487	56.27437801	130.3936453	005	30/05/2008	HE	Bait Set	1	30/05/2005	3	18/07/2008	6090	A	2	W	
2008 Summer	2	1	9	413702	6237487	56.27437801	130.3936453	005	30/05/2008	HE	Bait Set	1	30/05/2005	3	18/07/2008	6091	A	3	W	
2008 Summer	2	1	9	413702	6237487	56.27437801	130.3936453	005	30/05/2008	HE	Bait Set	1	30/05/2005	3	18/07/2008	6092	A	4	W	
2008 Summer	2	1	9	413702	6237487	56.27437801	130.3936453	005	30/05/2008	HE	Bait Set	1	30/05/2005	3	18/07/2008	6093	B	1	W	
2008 Summer	2	1	9	413702	6237487	56.27437801	130.3936453	005	30/05/2008	HE	Bait Set	1	30/05/2005	3	18/07/2008	6094	B	2	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7425	E	3	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7433	E	2	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7434	E	1	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7435	D	1	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7436	C	1	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7453	A	6	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7520	A	4	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7522	B	1	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7523	A	8	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7524	A	1	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7525	A	2	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	2	07/01/2008	5666	A	1	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	2	07/01/2008	5667	A	2	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	2	07/01/2008	5668	A	3	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	2	07/01/2008	5670	B	2	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	2	07/01/2008	5671	B	1	W	
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	2	07/01/2008	5672	B	3	W	5672
2008 Summer	5	1	9	393912	6246790	56.35397038	130.7169681	009	30/05/2008	HE	Bait Set	1	30/05/2005	2	07/01/2008	5743	C	1	W	
2008 Summer	5	2	9	396711	6246746	56.35410483	-130.6715298	039	01/07/2008	HE	Bait Set	1	01/07/2008	1	18/07/2008					
2008 Summer	6	1	9	397582	6245483	56.34302488	130.6569661	008	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7412	Q	2	W	
2008 Summer	6	1	9	397582	6245483	56.34302488	130.6569661	008	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7413	P	1	W	
2008 Summer	6	1	9	397582	6245483	56.34302488	130.6569661	008	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7422	A	1	G	
2008 Summer	6	1	9	397582	6245483	56.34302488	130.6569661	008	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7428	R	5	W	
2008 Summer	6	1	9	397582	6245483	56.34302488	130.6569661	008	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7437	A	1	W	
2008 Summer	6	1	9	397582	6245483	56.34302488	130.6569661	008	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7438	R	4	W	
2008 Summer	6	1	9	397582	6245483	56.34302488	130.6569661	008	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7439	R	2	W	
2008 Summer	6	1	9	397582	6245483	56.34302488	130.6569661	008	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7442	R	11	W	
2008 Summer	6	1	9	397582	6245483	56.34302488	130.6569661	008	30/05/2008	HE	Bait Set	1	30/05/2005	1	17/06/2008	7443	R	10	W	











Appendix 2. Grizzly Bear Hair Samples and DNA Results, 2008 and 2009

SamplePeriod	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Chk_Num	Chk_Date	Sample	Group	Barb_Num	Location	Grizzly ID
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	5268	P	4	W	5264
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	5269	P	3	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	5270	P	2	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	5271	P	1	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	5272	Q	1	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	5273	R	1	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	7470	B	1	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	7471	A	3	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	7475	B	2	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	7483	C	2	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	7486	C	1	W	7486
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	7489	C	3	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	7490	B	3	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	7491	A	4	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	7497	A	5	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	7514	A	2	W	7514
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	7515	A	1	W	
2008 Summer	16	1	9	402115	6257043	56.44773832	130.587964	006	30/05/2008	HE	Bait Set	1	30/05/2008	1	17/06/2008	7519	A	4	W	
2008 Summer	16	2	9	402837	6256334	56.44150998	130.5759873	032	17/06/2008	HE	Bait Set	1	17/06/2008	1	03/07/2008					
2008 Summer	16	2	9	402837	6256334	56.44150998	130.5759873	032	17/06/2008	HE	Bait Set	1	17/06/2008	2	18/07/2008					
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5193	Q	5	W	5299
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5199	P	1	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5201	Q	6	W	5299
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5211	R	2	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5212	R	3	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5213	Q	1	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5214	Q	2	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5215	Q	3	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5216	Q	4	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5217	R	1	W	5264
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5293	C	1	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5294	B	3	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5295	B	2	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5296	B	1	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5297	A	6	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5298	A	5	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5299	A	4	W	5299
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5300	A	3	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5301	A	2	W	
2008 Summer	17	1	9	407676	6260920	56.48367749	130.4991638	003	30/05/2008	HE	Bait Set	1	30/05/2008	1	18/06/2008	5302	A	1	W	
2008 Summer	17	2	9	406866	6259028	56.46651923	130.5116261	034	18/06/2008	HE		1	18/06/2008	1	03/07/2008					
2008 Summer	17	2	9	406866	6259028	56.46651923	130.5116261	034	18/06/2008	HE		1	18/06/2008	2	18/07/2008	5928	R	1	W	
2008 Summer	17	2	9	406866	6259028	56.46651923	130.5116261	034	18/06/2008	HE		1	18/06/2008	2	18/07/2008	5929	R	2	W	
2008 Summer	17	2	9	406866	6259028	56.46651923	130.5116261	034	18/06/2008	HE		1	18/06/2008	2	18/07/2008	6080	A	1	W	
2008 Summer	17	2	9	406866	6259028	56.46651923	130.5116261	034	18/06/2008	HE		1	18/06/2008	2	18/07/2008	6081	A	2	W	
2008 Summer	17	2	9	406866	6259028	56.46651923	130.5116261	034	18/06/2008	HE		1	18/06/2008	2	18/07/2008	6082	A	3	W	
2008 Summer	18	1	9	416951	6259013	56.46826057	130.3480365	001	29/05/2008	HE	Bait Set	1	29/05/2008	1	20/06/2008	5608	R	1	W	
2008 Summer	18	1	9	416951	6259013	56.46826057	130.3480365	001	29/05/2008	HE	Bait Set	1	29/05/2008	1	20/06/2008	5609	Q	1	W	
2008 Summer	18	1	9	416951	6259013	56.46826057	130.3480365	001	29/05/2008	HE	Bait Set	1	29/05/2008	1	20/06/2008	5610	P	1	W	
2008 Summer	18	1	9	416951	6259013	56.46826057	130.3480365	001	29/05/2008	HE	Bait Set	1	29/05/2008	1	20/06/2008	5611	P	2	W	
2008 Summer	18	1	9	416951	6259013	56.46826057	130.3480365	001	29/05/2008	HE	Bait Set	1	29/05/2008	1	20/06/2008	5612	O	1	W	
2008 Summer	18	1	9	416951	6259013	56.46826057	130.3480365	001	29/05/2008	HE	Bait Set	1	29/05/2008	1	20/06/2008	5613	O	2	W	
2008 Summer	18	1	9	416951	6259013	56.46826057	130.3480365	001	29/05/2008	HE	Bait Set	1	29/05/2008	1	20/06/2008	5614	N	1	W	
2008 Summer	18	1	9	416951	6259013	56.46826057	130.3480365	001	29/05/2008	HE	Bait Set	1	29/05/2008	1	20/06/2008	5615	N	2	W	
2008 Summer	18	1	9	416951	6259013	56.46826057	130.3480365	001	29/05/2008	HE	Bait Set	1	29/05/2008	1	20/06/2008	5618	Q	2	W	















Appendix 2. Grizzly Bear Hair Samples and DNA Results, 2008 and 2009

SamplePeriod	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Chk_Num	Chk_Date	Sample	Group	Barb_Num	Location	Grizzly ID
2008 Summer	32	1	9	468927	6263122	56.51150876	129.504945	026	01/06/2008	HE	Bait Set	1	01/06/2008	3	17/07/2008	6041	B	2	W	
2008 Summer	32	1	9	468927	6263122	56.51150876	129.504945	026	01/06/2008	HE	Bait Set	1	01/06/2008	3	17/07/2008	6042	B	3	W	
2008 Summer	32	1	9	468927	6263122	56.51150876	129.504945	026	01/06/2008	HE	Bait Set	1	01/06/2008	3	17/07/2008	6043	B	4	W	
2008 Summer	34	1	9	410996	6272722	56.59029739	130.4492971	011	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008					
2008 Summer	34	1	9	410996	6272722	56.59029739	130.4492971	011	31/05/2008	HE	Bait Set	1	31/05/2008	2	03/07/2008	5785	R	1	W	
2008 Summer	34	1	9	410996	6272722	56.59029739	130.4492971	011	31/05/2008	HE	Bait Set	1	31/05/2008	2	03/07/2008	5911	A	1	W	
2008 Summer	34	2	9	410468	6277340	56.6316848	130.4595025	046	03/07/2008	HE	Bait Set	1	03/07/2008							
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5275	C	1	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5276	B	1	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5277	A	2	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5278	A	1	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5279	R	1	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5280	Q	1	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5281	P	1	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5282	P	2	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5283	P	3	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5284	P	4	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5292	C	2	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5303	P	4	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5304	P	6	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5305	P	7	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5306	P	8	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/06/2008	5307	P	9	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5775	A	3	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5776	A	2	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5777	A	1	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5778	B	4	W	5920
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5779	B	3	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5780	B	2	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5781	B	1	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5782	A	8	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5783	B	6	W	5920
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5784	B	5	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5918	R	1	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5919	A	7	W	5920
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5920	A	6	W	5920
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5921	A	5	W	
2008 Summer	35	1	9	419920	6280612	56.66280454	130.3064869	012	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5922	A	4	W	
2008 Summer	35	2	9	419838	6276284	56.62389072	130.3064671	045	02/07/2008	HE	Bait Set	1	02/07/2008							
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5334	A	2	G	
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5335	C	3	W	5337
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5336	C	2	W	
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5337	A	1	W	5337
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5338	B	1	W	
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5339	B	2	W	5337
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5340	C	1	W	
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5374	R	5	W	
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5375	R	4	W	
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5376	R	3	W	
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5377	R	2	W	
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5378	R	1	W	
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5409	R	6	W	5337
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5415	R	7	W	
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5416	R	6	G	
2008 Summer	36	1	9	431937	6280680	56.66280454	130.3064869	013	31/05/2008	HE	Bait Set	1	31/05/2008	1	20/06/2008	5417	R	8	W	5337





Appendix 2. Grizzly Bear Hair Samples and DNA Results, 2008 and 2009

SamplePeriod	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Chk_Num	Chk_Date	Sample	Group	Barb_Num	Location	Grizzly ID
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5925	J	10	W	5971
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5926	K	1	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5927	K	2	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5945	J	3	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5946	J	4	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5947	J	5	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5948	J	6	W	5948
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5949	J	7	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5958	S	6	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5971	J	1	W	5971
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5972	J	2	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5987	S	5	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5990	S	1	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5991	R	1	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	5993	S	4	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	6033	B	4	G	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	6034	B	5	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	6035	B	4	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	6036	B	3	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	6037	B	2	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	6038	B	1	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	6039	A	1	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	6055	S	3	W	
2008 Summer	38	1	9	452934	6279125	56.65390028	129.7676435	019	31/05/2008	HE	Bait Set	1	31/05/2008	3	17/07/2008	6056	S	2	W	
2008 Summer	39	1	9	457203	6276198	56.62795468	129.6975542	025	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008	5420	P	1	W	
2008 Summer	39	1	9	457203	6276198	56.62795468	129.6975542	025	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008	5440	C	6	W	
2008 Summer	39	1	9	457203	6276198	56.62795468	129.6975542	025	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008	5441	C	5	W	
2008 Summer	39	1	9	457203	6276198	56.62795468	129.6975542	025	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008	5442	C	4	W	5442
2008 Summer	39	1	9	457203	6276198	56.62795468	129.6975542	025	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008	5443	C	3	W	
2008 Summer	39	1	9	457203	6276198	56.62795468	129.6975542	025	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008	5444	C	2	W	
2008 Summer	39	1	9	457203	6276198	56.62795468	129.6975542	025	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008	5445	C	1	W	7514
2008 Summer	39	1	9	457203	6276198	56.62795468	129.6975542	025	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008	5446	B	1	W	
2008 Summer	39	1	9	457203	6276198	56.62795468	129.6975542	025	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008	5447	A	1	W	
2008 Summer	39	1	9	457203	6276198	56.62795468	129.6975542	025	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008	5468	Q	1	W	5442
2008 Summer	39	1	9	457203	6276198	56.62795468	129.6975542	025	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008	5469	R	2	W	5442
2008 Summer	39	1	9	457203	6276198	56.62795468	129.6975542	025	01/06/2008	HE	Bait Set	1	01/06/2008	1	19/06/2008	5470	R	1	W	
2008 Summer	39	2	9	455523	6276623	56.63176971	129.7250194	036	19/06/2008	HE	Bait Set	1	19/06/2008	1	02/07/2008					
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/07/2008	6113	A	2	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/07/2008	6114	A	1	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	1	18/07/2008	6115	R	1	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5641	R	1	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5642	Q	1	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5665	A	1	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	2	02/07/2008	5708	B	1	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	3	20/06/2008	5192	Q	2	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	3	20/06/2008	5197	Q	6	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	3	20/06/2008	5224	Q	3	G	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	3	20/06/2008	5225	Q	4	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	3	20/06/2008	5259	Q	1	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	3	20/06/2008	5262	R	2	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	3	20/06/2008	5263	R	1	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	3	20/06/2008	5322	B	1	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	3	20/06/2008	5323	D	2	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	3	20/06/2008	5324	D	1	W	
2008 Summer	42	1	9	435413	6284858	56.82827521	130.117495	014	31/05/2008	HE	Bait Set	1	31/05/2008	3	20/06/2008	5325	C	1	W	





Appendix 2. Grizzly Bear Hair Samples and DNA Results, 2008 and 2009

SamplePeriod	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Chk_Num	Chk_Date	Sample	Group	Barb_Num	Location	Grizzly ID
2008 Summer	47	1	9	440437	6293681	56.78330622	129.9748043	016	31/05/2008	HE	Bait Set	1	31/05/2008	2	01/07/2008	5766	Q	1	W	
2008 Summer	47	1	9	440437	6293681	56.78330622	129.9748043	016	31/05/2008	HE	Bait Set	1	31/05/2008	3	18/07/2008	6110	R	1	W	
2008 Summer	47	1	9	440437	6293681	56.78330622	129.9748043	016	31/05/2008	HE	Bait Set	1	31/05/2008	3	18/07/2008	6111	A	1	W	
2008 Summer	47	1	9	440437	6293681	56.78330622	129.9748043	016	31/05/2008	HE	Bait Set	1	31/05/2008	3	18/07/2008	6112	A	2	W	
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	1	12/10/2009	6513	A	1	W	
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	1	12/10/2009	6514	B	1	W	
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	1	12/10/2009	6515	C	1	W	
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	1	12/10/2009	6516	C	2	W	7987 F
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	1	12/10/2009	6517	C	3	W	7987 F
2009 Fall	16	2	9	398548	6254326	0	0	15	06/10/2009	HE	Trail Set	1	10/10/2009	1	12/10/2009	6518	A	1	W	6486 M
2009 Fall	16	4	9	401912	6256732	0	0	17	06/10/2009	HE	Trail Set	1	06/10/2009	1	12/10/2009	6519	A	1	W	
2009 Fall	26	2	9	410063	6269939	0	0	19	06/10/2009	HE	Trail Set	1	06/10/2009	1	12/10/2009	6520	A	1	W	6520 M
2009 Fall	26	2	9	410063	6269939	0	0	19	06/10/2009	HE	Trail Set	1	06/10/2009	1	12/10/2009	6521	A	2	W	
2009 Fall	26	2	9	410063	6269939	0	0	19	06/10/2009	HE	Trail Set	1	06/10/2009	1	12/10/2009	6522	A	3	W	
2009 Fall	26	2	9	410063	6269939	0	0	19	06/10/2009	HE	Trail Set	1	06/10/2009	1	12/10/2009	6523	A	4	W	
2009 Fall	34	1	9	410200	6271758	0	0	21	06/10/2009	HE	Trail Set	1	06/10/2009	1	12/10/2009	6524	A	1	W	6520 M
2009 Fall	34	1	9	410200	6271758	0	0	21	06/10/2009	HE	Trail Set	1	06/10/2009	1	12/10/2009	6525	A	2	W	6520 M
2009 Fall	34	1	9	410200	6271758	0	0	21	06/10/2009	HE	Trail Set	1	06/10/2009	1	12/10/2009	6526	A	3	W	
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7965	A	1	W	5264 F
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7966	B	1	W	5264 F
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7967	B	2	W	5264 F
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7968	B	3	W	
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7969	B	4	W	6520 M
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7970	C	1	W	
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7971	C	2	W	
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7972	C	3	W	
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7973	C	4	W	
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7974	C	1	G	5264 F
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7975	B	1	G	
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7976	B	2	G	
2009 Fall	5	1	9	392635	6245959	0	0	13	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7977	B	3	G	
2009 Fall	16	1	9	397432	6252715	0	0	14	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7978	A	1	W	
2009 Fall	16	2	9	398548	6254326	0	0	15	06/10/2009	HE	Trail Set	1	10/10/2009	2	26/10/2009	7979	A	1	W	
2009 Fall	16	4	9	401912	6256732	0	0	17	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7980	A	1	W	
2009 Fall	16	4	9	401912	6256732	0	0	17	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7981	A	1	G	
2009 Fall	16	4	9	401912	6256732	0	0	17	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7982	B	1	W	
2009 Fall	16	4	9	401912	6256732	0	0	17	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7983	B	1	G	
2009 Fall	16	4	9	401912	6256732	0	0	17	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7984	B	2	W	
2009 Fall	16	4	9	401912	6256732	0	0	17	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7985	B	3	W	
2009 Fall	16	4	9	401912	6256732	0	0	17	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7986	B	4	W	
2009 Fall	16	4	9	401912	6256732	0	0	17	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7987	C	1	G	7987 F
2009 Fall	16	4	9	401912	6256732	0	0	17	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7988	C	1	W	
2009 Fall	16	4	9	401912	6256732	0	0	17	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7989	C	2	W	
2009 Fall	26	1	9	407522	6265497	0	0	18	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7990	A	1	W	5250 M
2009 Fall	26	2	9	410063	6269939	0	0	19	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7991	A	1	W	7991 M
2009 Fall	26	2	9	410063	6269939	0	0	19	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7992	A	2	W	
2009 Fall	26	2	9	410063	6269939	0	0	19	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7993	A	3	W	
2009 Fall	26	2	9	410063	6269939	0	0	19	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7994	A	4	W	
2009 Fall	26	2	9	410063	6269939	0	0	19	06/10/2009	HE	Trail Set	1	06/10/2009	2	26/10/2009	7995	A	1	G	
2009 Fall	30	2	9	451663	6263497	0	0	23	07/10/2009	HE	Trail Set	1	07/10/2009	2	27/10/2009	7996	A	1	W	
2009 Fall	30	2	9	451663	6263497	0	0	23	07/10/2009	HE	Trail Set	1	07/10/2009	2	27/10/2009	7997	A	2	W	
2009 Fall	30	2	9	451663	6263497	0	0	23	07/10/2009	HE	Trail Set	1	07/10/2009	2	27/10/2009	7998	B	1	W	
2009 Fall	30	2	9	451663	6263497	0	0	23	07/10/2009	HE	Trail Set	1	07/10/2009	2	27/10/2009	7999	B	2	W	7991 M
2009 Fall	30	2	9	451663	6263497	0	0	23	07/10/2009	HE	Trail Set	1	07/10/2009	2	27/10/2009	8000	B	3	W	7991 M
2009 Fall	30	2	9	451663	6263497	0	0	23	07/10/2009	HE	Trail Set	1	07/10/2009	2	27/10/2009	8001	B	1	G	



Appendix 2. Grizzly Bear Hair Samples and DNA Results, 2008 and 2009

SamplePeriod	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Chk_Num	Chk_Date	Sample	Group	Barb_Num	Location	Grizzly ID
2009 Fall	43	3	9	440312	6283350	0	0	29	08/10/2009	HE	Trail Set	1	08/10/2009	2	27/10/2009	8002	B	1	W	
2009 Fall	43	3	9	440312	6283350	0	0	29	08/10/2009	HE	Trail Set	1	08/10/2009	2	27/10/2009	8003	A	1	W	
2009 Fall	43	3	9	440312	6283350	0	0	29	08/10/2009	HE	Trail Set	1	08/10/2009	2	27/10/2009	8004	C	1	W	
2009 Fall	43	3	9	440312	6283350	0	0	29	08/10/2009	HE	Trail Set	1	08/10/2009	2	27/10/2009	8005	C	2	W	
2009 Fall	43	3	9	440312	6283350	0	0	29	08/10/2009	HE	Trail Set	1	08/10/2009	2	27/10/2009	8006	C	1	G	8006 F
2009 Fall	43	3	9	440312	6283350	0	0	29	08/10/2009	HE	Trail Set	1	08/10/2009	2	27/10/2009	8007	D	1	W	
2009 Fall	43	3	9	440312	6283350	0	0	29	08/10/2009	HE	Trail Set	1	08/10/2009	2	27/10/2009	8008	D	2	W	8006 F
2009 Fall	43	3	9	440312	6283350	0	0	29	08/10/2009	HE	Trail Set	1	08/10/2009	2	27/10/2009	8009	D	3	W	
2009 Fall	43	3	9	440312	6283350	0	0	29	08/10/2009	HE	Trail Set	1	08/10/2009	2	27/10/2009	8010	D	4	W	
2009 Fall	43	3	9	440312	6283350	0	0	29	08/10/2009	HE	Trail Set	1	08/10/2009	2	27/10/2009	8011	D	1	G	
2009 Summer	44	1	9	432835	6280219	0	0	026	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	5050	Q	1	W	
2009 Summer	21	1	9	401120	6255849	0	0	003	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	5051	Q	4	W	
2009 Summer	21	1	9	401120	6255849	0	0	003	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	5052	Q	3	W	
2009 Summer	21	1	9	401120	6255849	0	0	003	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	5053	Q	2	W	
2009 Summer	21	1	9	401120	6255849	0	0	003	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	5054	Q	1	W	5299 M
2009 Summer	21	1	9	401120	6255849	0	0	003	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	5065	E	3	W	
2009 Summer	21	1	9	401120	6255849	0	0	003	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	5066	E	2	W	
2009 Summer	21	1	9	401120	6255849	0	0	003	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	5067	E	1	W	
2009 Summer	21	1	9	401120	6255849	0	0	003	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	5068	D	1	W	
2009 Summer	21	1	9	401120	6255849	0	0	003	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	5069	C	1	W	
2009 Summer	21	1	9	401120	6255849	0	0	003	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	5070	B	1	W	
2009 Summer	21	1	9	401120	6255849	0	0	003	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	5071	A	1	W	
2009 Summer	44	1	9	432835	6280219	0	0	026	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	5072	R	1	W	
2009 Summer	44	1	9	432835	6280219	0	0	026	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	5073	J	1	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	1	09/06/2009	6028	C	1	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	1	09/06/2009	6029	E	1	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	1	09/06/2009	6030	D	1	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	1	09/06/2009	6031	C	2	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	1	09/06/2009	6087	S	2	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	1	09/06/2009	6105	R	1	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	1	09/06/2009	6106	Q	1	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	1	09/06/2009	6134	R	2	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	1	09/06/2009	6135	S	1	W	
2009 Summer	22	1	9	406902	6259037	0	0	004	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6145	A	1	W	
2009 Summer	22	1	9	406902	6259037	0	0	004	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6146	A	2	W	
2009 Summer	22	1	9	406902	6259037	0	0	004	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6147	B	1	W	
2009 Summer	22	1	9	406902	6259037	0	0	004	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6148	B	2	W	
2009 Summer	22	1	9	406902	6259037	0	0	004	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6149	C	1	W	
2009 Summer	33	1	9	416262	6262645	0	0	005	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6150	A	1	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6152	A	1	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6153	A	2	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6154	B	1	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6155	C	1	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	1	09/06/2009	6159	A	1	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	1	09/06/2009	6160	A	1	G	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	1	09/06/2009	6161	B	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6162	A	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6163	A	2	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6164	B	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6165	B	2	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6166	B	3	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6167	B	4	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6168	C	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6169	C	2	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6170	C	3	W	

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SamplePeriod	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Chk_Num	Chk_Date	Sample	Group	Barb_Num	Location	Grizzly ID
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6171	S	2	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6172	S	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6173	Q	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6174	R	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6175	T	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6176	U	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6177	U	2	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6178	U	3	W	
2009 Summer	45	1	9	444900	6272301	0	0	024	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6179	A	1	W	
2009 Summer	44	1	9	432835	6280219	0	0	026	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6180	A	1	W	
2009 Summer	44	1	9	432835	6280219	0	0	026	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6181	B	1	W	
2009 Summer	44	1	9	432835	6280219	0	0	026	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6182	B	2	W	
2009 Summer	44	1	9	432835	6280219	0	0	026	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6183	B	3	W	
2009 Summer	44	1	9	432835	6280219	0	0	026	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6184	B	4	W	
2009 Summer	44	1	9	432835	6280219	0	0	026	28/05/2009	HE	Bait Set	1	28/05/2009	1	09/06/2009	6185	B	5	W	
2009 Summer	15	1	9	440064	6250309	0	0	017	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6186	A	1	W	
2009 Summer	15	1	9	440064	6250309	0	0	017	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6187	B	1	W	
2009 Summer	16	1	9	447405	6251274	0	0	016	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6188	A	1	W	
2009 Summer	16	1	9	447405	6251274	0	0	016	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6189	B	1	W	
2009 Summer	16	1	9	447405	6251274	0	0	016	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6190	C	1	W	
2009 Summer	16	1	9	447405	6251274	0	0	016	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6191	D	1	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6192	A	1	W	6192 M
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6193	A	2	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6194	A	3	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6195	A	4	W	6192 M
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6196	A	5	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6197	B	1	W	6192 M
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6198	A	1	W	
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6199	B	1	W	6192 M
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6200	C	1	W	
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6201	B	2	W	
2009 Summer	19	1	9	478126	6246726	0	0	011	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6202	A	1	W	
2009 Summer	19	1	9	478126	6246726	0	0	011	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6203	B	1	W	
2009 Summer	19	1	9	478126	6246726	0	0	011	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6204	C	1	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6205	A	1	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6206	A	2	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6207	B	1	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6208	B	2	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6209	C	1	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6210	C	2	W	
2009 Summer	36	1	9	453445	6269799	0	0	018	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6211	A	1	W	
2009 Summer	36	1	9	453445	6269799	0	0	018	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6212	B	1	W	
2009 Summer	36	1	9	453445	6269799	0	0	018	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6214	C	1	W	6214 M
2009 Summer	44	1	9	432835	6280219	0	0	026	28/05/2009	HE	Bait Set	1	28/05/2009	2	23/06/2009	6215	A	1	W	
2009 Summer	44	1	9	432835	6280219	0	0	026	28/05/2009	HE	Bait Set	1	28/05/2009	2	23/06/2009	6216	C	1	W	
2009 Summer	44	1	9	432835	6280219	0	0	026	28/05/2009	HE	Bait Set	1	28/05/2009	2	23/06/2009	6217	B	1	W	6217 M
2009 Summer	12	2	9	414715	6246283	0	0	033	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6218	A	2	W	
2009 Summer	12	2	9	414715	6246283	0	0	033	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6219	A	1	W	
2009 Summer	12	2	9	414715	6246283	0	0	033	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6220	B	1	W	
2009 Summer	12	2	9	414715	6246283	0	0	033	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6221	C	1	W	
2009 Summer	12	2	9	414715	6246283	0	0	033	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6222	C	2	W	
2009 Summer	12	2	9	414715	6246283	0	0	033	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6223	D	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6224	A	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6225	A	2	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6226	A	3	W	

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SamplePeriod	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Chk_Num	Chk_Date	Sample	Group	Barb_Num	Location	Grizzly ID
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6227	B	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6228	C	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6229	D	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6230	D	2	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6231	D	3	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6232	E	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6233	E	2	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6234	E	3	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6235	E	3	G	
2009 Summer	11	2	9	399045	6249381	0	0	031	09/06/2009	HE	Bait Set	1	06/09/2009	1	23/06/2009	6236	A	1	W	
2009 Summer	11	2	9	399045	6249381	0	0	031	09/06/2009	HE	Bait Set	1	06/09/2009	1	23/06/2009	6237	A	2	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6238	A	1	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6239	A	2	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6240	B	1	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6241	C	1	W	6486 M
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6242	D	1	W	6486 M
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6243	E	1	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6244	E	2	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6245	E	2	G	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6246	F	1	W	5696 M
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6247	G	1	W	5696 M
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6248	G	2	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6249	H	1	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6250	I	1	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6251	J	1	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6252	J	2	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6253	K	1	W	
2009 Summer	56	1	9	448858	6285669	0	0	010	26/05/2009	HE	Bait Set	1	26/05/2009	2	25/06/2009	6255	A	1	W	
2009 Summer	56	1	9	448858	6285669	0	0	010	26/05/2009	HE	Bait Set	1	26/05/2009	2	25/06/2009	6256	A	2	W	5971 F
2009 Summer	56	1	9	448858	6285669	0	0	010	26/05/2009	HE	Bait Set	1	26/05/2009	2	25/06/2009	6257	A	3	W	
2009 Summer	56	1	9	448858	6285669	0	0	010	26/05/2009	HE	Bait Set	1	26/05/2009	2	25/06/2009	6258	A	4	W	5971 F
2009 Summer	18	1	9	4744857	6248763	0	0	012	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6259	A	1	W	
2009 Summer	18	1	9	4744857	6248763	0	0	012	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6260	A	3	W	
2009 Summer	18	1	9	4744857	6248763	0	0	012	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6262	A	2	W	
2009 Summer	18	1	9	4744857	6248763	0	0	012	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6263	Q	3	W	
2009 Summer	18	1	9	4744857	6248763	0	0	012	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6264	Q	2	W	
2009 Summer	18	1	9	4744857	6248763	0	0	012	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6265	Q	1	W	
2009 Summer	36	2	9	453584	6267921	0	0	035	10/06/2009	HE	Bait Set	1	10/06/2009	1	25/06/2009	6266	A	1	W	
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6267	A	2	W	
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6268	A	1	W	
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6269	Q	1	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6270	Q	1	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6271	Q	2	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6272	A	1	G	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6273	A	1	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	2	25/06/2009	6274	A	2	W	
2009 Summer	47	1	9	458606	6274435	0	0	022	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6275	C	1	W	
2009 Summer	47	1	9	458606	6274435	0	0	022	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6276	A	1	W	
2009 Summer	47	1	9	458606	6274435	0	0	022	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6277	B	1	W	
2009 Summer	47	1	9	458606	6274435	0	0	022	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6278	B	2	W	
2009 Summer	47	1	9	458606	6274435	0	0	022	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6279	Q	1	W	
2009 Summer	47	1	9	458606	6274435	0	0	022	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6280	Q	2	W	
2009 Summer	45	1	9	444900	6272301	0	0	024	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6281	A	1	W	
2009 Summer	45	1	9	444900	6272301	0	0	024	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6282	B	1	W	
2009 Summer	45	1	9	444900	6272301	0	0	024	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6283	B	2	W	

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SamplePeriod	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Chk_Num	Chk_Date	Sample	Group	Barb_Num	Location	Grizzly ID
2009 Summer	45	1	9	444900	6272301	0	0	024	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6284	B	3	W	
2009 Summer	45	1	9	444900	6272301	0	0	024	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6285	B	4	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6286	A	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6287	B	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6288	B	2	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6289	B	3	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6290	C	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6291	Q	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6292	R	2	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6293	R	1	W	
2009 Summer	46	1	9	450554	6281369	0	0	023	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6294	R	3	W	
2009 Summer	45	1	9	444900	6272301	0	0	024	28/05/2009	HE	Bait Set	1	28/05/2009	2	25/06/2009	6295	Q	1	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6296	A	1	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6297	B	1	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6298	B	2	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6299	S	1	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6300	T	1	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6301	Q	1	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6302	Q	2	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6303	Q	3	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6304	Q	4	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6305	Q	5	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6306	A	1	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6307	A	2	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6308	A	3	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6309	A	1	T	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6310	B	1	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6311	B	2	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6312	B	3	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6313	C	1	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6314	C	2	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6315	C	3	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6316	C	3	G	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6317	Q	1	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6318	Q	2	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6319	Q	3	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6320	Q	4	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6321	R	1	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6322	R	2	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	2	24/06/2009	6323	A	1	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	2	24/06/2009	6324	A	2	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	2	24/06/2009	6325	A	3	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	2	24/06/2009	6326	A	4	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	2	24/06/2009	6327	B	1	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	2	24/06/2009	6328	C	1	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	2	24/06/2009	6329	D	1	W	
2009 Summer	33	1	9	416262	6262645	0	0	005	26/05/2009	HE	Bait Set	1	26/05/2009	2	24/06/2009	6330	A	1	W	
2009 Summer	43	1	9	419909	6280614	0	0	025	28/05/2009	HE	Bait Set	1	28/05/2009	2	24/06/2009	6331	A	1	W	
2009 Summer	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	2	24/06/2009	6332	A	1	W	
2009 Summer	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	2	24/06/2009	6333	A	2	W	
2009 Summer	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	2	24/06/2009	6334	Q	1	W	
2009 Summer	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	2	24/06/2009	6335	Q	1	G	
2009 Summer	65	1	9	440597	6294848	0	0	041	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6336	A	1	W	6336 M
2009 Summer	65	1	9	440597	6294848	0	0	041	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6337	A	2	W	
2009 Summer	65	1	9	440597	6294848	0	0	041	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6338	B	1	W	6338 M

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SamplePeriod	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Chk_Num	Chk_Date	Sample	Group	Barb_Num	Location	Grizzly ID
2009 Summer	65	1	9	440597	6294848	0	0	041	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6339	B	2	W	
2009 Summer	65	1	9	440597	6294848	0	0	041	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6340	C	1	W	6336 M
2009 Summer	65	1	9	440597	6294848	0	0	041	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6341	C	2	W	
2009 Summer	65	1	9	440597	6294848	0	0	041	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6342	Q	1	W	6338 M
2009 Summer	65	1	9	440597	6294848	0	0	041	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6343	Q	2	W	
2009 Summer	65	1	9	440597	6294848	0	0	041	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6344	R	1	W	
2009 Summer	65	1	9	440597	6294848	0	0	041	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6345	R	2	W	
2009 Summer	65	1	9	440597	6294848	0	0	041	11/06/2009	HE	Bait Set	1	11/06/2009	1	24/06/2009	6346	R	3	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	2	24/06/2009	6347	A	1	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	2	24/06/2009	6348	B	1	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	2	24/06/2009	6349	B	2	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	2	24/06/2009	6350	D	1	W	
2009 Summer	75	1	9	435902	6302276	0	0	020	27/05/2009	HE	Bait Set	1	27/05/2009	2	24/06/2009	6351	D	2	W	
2009 Summer	12	2	9	414715	6246283	0	0	033	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6352	R	1	W	
2009 Summer	12	2	9	414715	6246283	0	0	033	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6353	S	1	W	
2009 Summer	12	2	9	414715	6246283	0	0	033	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6354	Q	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6355	Q	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6356	R	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6357	S	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6358	T	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6359	T	2	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6360	T	3	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6361	T	4	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6362	U	2	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6363	U	1	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6364	T	2	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6365	T	1	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6366	S	3	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6367	S	2	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6368	S	1	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6369	R	2	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6370	Q	1	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6371	U	3	W	5264 F
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6372	Q	2	W	
2009 Summer	10	1	9	392960	6246004	0	0	001	26/05/2009	HE	Bait Set	1	26/05/2009	2	23/06/2009	6373	R	1	W	
2009 Summer	15	1	9	440064	6250309	0	0	017	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6374	A	1	W	
2009 Summer	15	1	9	440064	6250309	0	0	017	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6375	A	2	W	
2009 Summer	15	1	9	440064	6250309	0	0	017	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6376	B	1	W	
2009 Summer	15	1	9	440064	6250309	0	0	017	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6377	C	1	W	
2009 Summer	15	1	9	440064	6250309	0	0	017	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6378	C	2	W	
2009 Summer	16	2	9	449083	6250969	0	0	034	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6379	A	1	W	
2009 Summer	16	2	9	449083	6250969	0	0	034	10/06/2009	HE	Bait Set	1	10/06/2009	1	23/06/2009	6380	B	1	W	
2009 Summer	26	1	9	452616	6251758	0	0	015	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6381	A	1	W	
2009 Summer	26	1	9	452616	6251758	0	0	015	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6382	Q	1	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6383	A	1	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6384	A	2	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6385	A	3	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6386	A	4	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6387	A	5	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6388	A	6	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6389	B	1	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	2	23/06/2009	6390	Q	1	W	
2009 Summer	16	2	9	449083	6250969	0	0	034	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009	6396	A	1	W	
2009 Summer	16	2	9	449083	6250969	0	0	034	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009	6397	A	2	W	
2009 Summer	16	2	9	449083	6250969	0	0	034	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009	6398	A	3	W	

Appendix 2. Grizzly Bear Hair Samples and DNA Results, 2008 and 2009

SamplePeriod	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Chk_Num	Chk_Date	Sample	Group	Barb_Num	Location	Grizzly ID
2009 Summer	16	2	9	449083	6250969	0	0	034	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009	6399	Q	2	W	
2009 Summer	16	2	9	449083	6250969	0	0	034	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009	6400	Q	1	W	
2009 Summer	16	2	9	449083	6250969	0	0	034	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009	6401	R	1	G	
2009 Summer	15	1	9	440064	6250309	0	0	017	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6402	A	1	W	
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6403	A	1	W	
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6404	B	1	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6405	A	1	W	
2009 Summer	47	1	9	458606	6274435	0	0	022	28/05/2009	HE	Bait Set	1	28/05/2009	3	05/07/2009	6406	Q	1	W	
2009 Summer	47	1	9	458606	6274435	0	0	022	28/05/2009	HE	Bait Set	1	28/05/2009	3	05/07/2009	6407	A	1	W	
2009 Summer	47	1	9	458606	6274435	0	0	022	28/05/2009	HE	Bait Set	1	28/05/2009	3	05/07/2009	6408	A	2	W	
2009 Summer	47	1	9	458606	6274435	0	0	022	28/05/2009	HE	Bait Set	1	28/05/2009	3	05/07/2009	6409	B	1	W	
2009 Summer	47	1	9	458606	6274435	0	0	022	28/05/2009	HE	Bait Set	1	28/05/2009	3	05/07/2009	6410	B	2	W	
2009 Summer	47	1	9	458606	6274435	0	0	022	28/05/2009	HE	Bait Set	1	28/05/2009	3	05/07/2009	6411	B	3	W	
2009 Summer	45	1	9	444900	6272301	0	0	024	28/05/2009	HE	Bait Set	1	28/05/2009	3	05/07/2009	6412	A	1	W	
2009 Summer	45	1	9	444900	6272301	0	0	024	28/05/2009	HE	Bait Set	1	28/05/2009	3	05/07/2009	6413	A	2	W	
2009 Summer	26	1	9	452616	6251758	0	0	015	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6414	A	1	W	
2009 Summer	19	1	9	478126	6246726	0	0	011	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6415	A	1	W	
2009 Summer	19	1	9	478126	6246726	0	0	011	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6416	A	2	W	
2009 Summer	19	1	9	478126	6246726	0	0	011	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6417	A	3	W	
2009 Summer	19	1	9	478126	6246726	0	0	011	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6418	B	1	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6419	A	1	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6420	B	1	W	
2009 Summer	18	1	9	4744857	6248763	0	0	012	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6421	A	1	W	
2009 Summer	18	1	9	4744857	6248763	0	0	012	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6422	A	2	W	
2009 Summer	18	1	9	4744857	6248763	0	0	012	27/05/2009	HE	Bait Set	1	27/05/2009	3	05/07/2009	6423	Q	1	W	
2009 Summer	36	2	9	453584	6267921	0	0	035	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009	6424	A	1	W	
2009 Summer	36	2	9	453584	6267921	0	0	035	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009	6425	A	2	W	6425 M
2009 Summer	36	2	9	453584	6267921	0	0	035	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009	6426	A	3	W	
2009 Summer	36	2	9	453584	6267921	0	0	035	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009	6427	A	4	W	
2009 Summer	36	2	9	453584	6267921	0	0	035	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009	6428	Q	1	W	6425 M
2009 Summer	36	2	9	453584	6267921	0	0	035	10/06/2009	HE	Bait Set	1	10/06/2009	2	05/07/2009	6429	Q	2	W	
2009 Summer	14	1	9	435485	6249305	0	0	036	11/06/2009	HE	Bait Set	1	11/06/2009	1	05/07/2009	6430	A	1	W	
2009 Summer	14	1	9	435485	6249305	0	0	036	11/06/2009	HE	Bait Set	1	11/06/2009	1	05/07/2009	6431	A	2	W	
2009 Summer	14	1	9	435485	6249305	0	0	036	11/06/2009	HE	Bait Set	1	11/06/2009	1	05/07/2009	6432	Q	1	W	
2009 Summer	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6433	A	1	W	
2009 Summer	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6434	B	1	W	
2009 Summer	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6435	B	1	G	
2009 Summer	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6436	B	2	W	
2009 Summer	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6437	B	3	W	
2009 Summer	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6438	B	4	W	
2009 Summer	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6439	C	1	W	
2009 Summer	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6440	D	1	W	
2009 Summer	64	1	9	433470	6300948	0	0	027	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6441	E	1	W	6441 F
2009 Summer	43	1	9	419909	6280614	0	0	025	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6442	A	1	W	
2009 Summer	43	1	9	419909	6280614	0	0	025	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6443	A	2	W	
2009 Summer	43	1	9	419909	6280614	0	0	025	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6444	B	1	W	
2009 Summer	43	1	9	419909	6280614	0	0	025	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6445	B	2	W	
2009 Summer	43	1	9	419909	6280614	0	0	025	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6446	B	3	W	
2009 Summer	43	1	9	419909	6280614	0	0	025	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6447	C	1	W	
2009 Summer	43	1	9	419909	6280614	0	0	025	28/05/2009	HE	Bait Set	1	28/05/2009	3	04/07/2009	6448	D	1	W	
2009 Summer	33	1	9	416262	6262645	0	0	005	26/05/2009	HE	Bait Set	1	26/05/2009	3	04/07/2009	6449	A	1	W	
2009 Summer	33	1	9	416262	6262645	0	0	005	26/05/2009	HE	Bait Set	1	26/05/2009	3	04/07/2009	6450	A	2	W	
2009 Summer	33	1	9	416262	6262645	0	0	005	26/05/2009	HE	Bait Set	1	26/05/2009	3	04/07/2009	6451	A	3	W	
2009 Summer	33	1	9	416262	6262645	0	0	005	26/05/2009	HE	Bait Set	1	26/05/2009	3	04/07/2009	6452	B	1	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6453	A	1	W	

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SamplePeriod	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Chk_Num	Chk_Date	Sample	Group	Barb_Num	Location	Grizzly ID
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6454	Q	2	W	
2009 Summer	31	1	9	403345	6270523	0	0	039	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6455	Q	1	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6456	A	1	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6457	A	2	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6458	A	3	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6459	A	4	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6460	B	1	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6461	B	2	W	
2009 Summer	21	2	9	397952	6256725	0	0	038	11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6462	B	3	W	
2009 Summer	20	1	9	393986	6250376	0	0		11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6463	A	1	W	
2009 Summer	20	1	9	393986	6250376	0	0		11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6464	A	2	W	
2009 Summer	20	1	9	393986	6250376	0	0		11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6465	A	3	W	
2009 Summer	20	1	9	393986	6250376	0	0		11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6466	A	4	W	
2009 Summer	20	1	9	393986	6250376	0	0		11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6467	B	1	W	
2009 Summer	20	1	9	393986	6250376	0	0		11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6468	B	2	W	
2009 Summer	20	1	9	393986	6250376	0	0		11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6469	Q	1	W	
2009 Summer	20	1	9	393986	6250376	0	0		11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6470	Q	2	W	
2009 Summer	20	1	9	393986	6250376	0	0		11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6471	Q	3	W	
2009 Summer	20	1	9	393986	6250376	0	0		11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6472	R	1	W	
2009 Summer	20	1	9	393986	6250376	0	0		11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6473	R	2	W	
2009 Summer	20	1	9	393986	6250376	0	0		11/06/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6474	R	3	W	
2009 Summer	2	1	9	413548	6238254			037	06/11/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6475	A	1	W	
2009 Summer	2	1	9	413548	6238254			037	06/11/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6476	A	2	W	
2009 Summer	2	1	9	413548	6238254			037	06/11/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6477	A	3	W	
2009 Summer	2	1	9	413548	6238254			037	06/11/2009	HE	Bait Set	1	11/06/2009	2	04/07/2009	6478	A	4	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	2	04/07/2009	6479	A	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	2	04/07/2009	6480	A	1	G	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	2	04/07/2009	6481	A	2	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	2	04/07/2009	6482	B	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	2	04/07/2009	6483	C	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	2	04/07/2009	6484	C	2	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	2	04/07/2009	6485	C	3	W	6485 F
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	2	04/07/2009	6486	Q	2	W	6486 M
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	2	04/07/2009	6487	R	1	W	
2009 Summer	1	1	9	402684	6238471	0	0	032	10/06/2009	HE	Bait Set	1	10/06/2009	2	04/07/2009	6488	R	2	W	6486 M
2009 Summer	16	1	9	447405	6251274	0	0	016	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6489	Q	1	W	
2009 Summer	19	1	9	478126	6246726	0	0	011	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6490	Q	1	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6491	R	1	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6492	R	2	W	6192 M
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6493	R	3	W	6192 M
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6494	R	4	W	
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6495	Q	1	W	6192 M
2009 Summer	27	1	9	455625	6254844	0	0	014	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6496	Q	2	W	
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6497	Q	1	W	
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6498	Q	2	W	
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6499	R	1	W	6192 M
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6500	R	2	W	
2009 Summer	28	1	9	468703	6254798	0	0	013	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6501	R	3	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6502	D	2	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6503	C	2	W	
2009 Summer	32	1	9	407807	6265655	0	0	007	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6504	D	1	W	
2009 Summer	33	1	9	416262	6262645	0	0	005	26/05/2009	HE	Bait Set	1	26/05/2009	1	09/06/2009	6505	B	1	W	
2009 Summer	36	1	9	453445	6269799	0	0	018	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6506	Q	1	W	6214 M
2009 Summer	36	1	9	453445	6269799	0	0	018	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6507	Q	2	W	
2009 Summer	36	1	9	453445	6269799	0	0	018	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6508	R	1	W	

Appendix 2. Grizzly Bear Hair Samples and DNA Results, 2008 and 2009

SamplePeriod	cell	site	utm_zone	utm_e	utm_n	lat	long	wpt_num	loc_date	access	Trap_Type	Session	Set_Date	Chk_Num	Chk_Date	Sample	Group	Barb_Num	Location	Grizzly ID
2009 Summer	36	1	9	453445	6269799	0	0	018	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6509	R	2	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6510	Q	1	W	
2009 Summer	37	1	9	461709	6270132	0	0	019	27/05/2009	HE	Bait Set	1	27/05/2009	1	10/06/2009	6511	Q	2	W	