

# Golden Ears Park Management Plan



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Photo on cover page: Alouette Lake. Credit: Panoramio.

This management plan replaces the direction provided in the 1976 Golden Ears Master Plan.

# Golden Ears Park Management Plan

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# 1.0 Introduction

# 1.1 Management Plan Purpose

The purpose of this management plan is to guide the management of Golden Ears Park. The direction set out in this management plan is applied by protected area managers to make decisions regarding ongoing management and operations within the park.

This management plan:

- defines the role and significance of the park in the protected areas system;
- identifies the significant features or values of the park;
- outlines a vision for the park;
- outlines management issues and opportunities; and
- provides a framework for operational decision making.

This management plan for Golden Ears Park builds on the previous management plan for the park, originally formulated in 1963 and revised in 1976, and a conceptual plan that was developed for Golden Ears and Mount Judge Howay when it was established as a Recreation Area in 1976. This management plan replaces the direction provided in the 1976 Golden Ears Master Plan.

The management plan is influenced by land use planning and management of the surrounding lands and waters, in particular the University of British Columbia (UBC) Malcolm Knapp Research Forest, and the Alouette and Stave reservoirs. Consideration is also given to BC Parks' management objectives for the other provincial parks in the vicinity of Golden Ears Park, specifically Pinecone Burke Park and Garibaldi Park, the latter of which shares a common boundary with Golden Ears Park.

# 1.2 Planning Area

Golden Ears Park is situated on the north side of the Fraser River approximately fifty kilometres east of Vancouver in the District of Maple Ridge (Figure 1). The park conserves significant natural features typical of the Coast Mountains while providing a wide variety of recreation opportunities in close proximity to the large population of Metro Vancouver. Golden Ears Park is British Columbia's fourth most visited provincial park, with an average attendance of over 610,000 visitors annually. Encompassing 62,539 hectares, Golden Ears Park is the second largest park in the South Coast Region, after Garibaldi Park. The park is part of a protected area complex, which includes Garibaldi Park to the north and Pinecone Burke Park to the west. Together these three parks create a large expanse of connected protected wilderness totalling 2,875 square kilometres; this is one of 12 large park complexes in the province. The Pitt-Addington Marsh Wildlife Management Area (WMA) borders the southwest corner of the park and along with the Pitt-Polder Ecological Reserve protects important marsh and bog habitat adjoining the park at the south end of Pitt Lake.

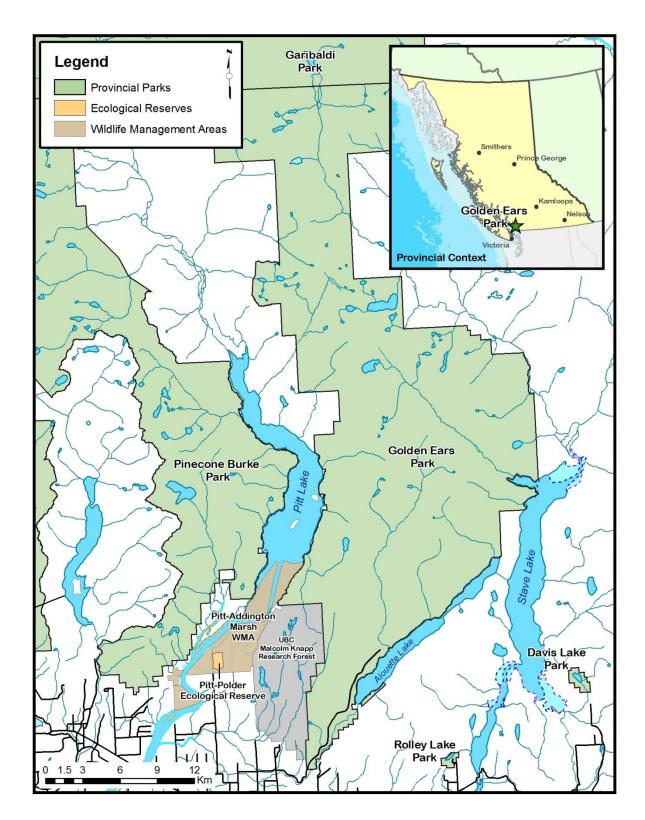


Figure 1. Golden Ears Park Overview Map

In the 1920s, the area that is now Golden Ears Park was part of one of the largest railway logging operations in the province, operated by the Lougheed and Abernathy Logging Company. In 1929, a spark from a locomotive caused an extensive forest fire which destroyed almost 60,000 hectares of forest and ended logging in the area. In 1933 — in recognition of the significant recreational values associated with the area's scenic mountains and lakes—the Province added the lands that are now Golden Ears Park to Garibaldi Park. There were plans to establish the area as a national park, however this did not proceed. In 1967, Golden Ears Park was split off from Garibaldi Park and established as a separate Class A park to provide more focus to the recreational features associated with the south end of the park in the vicinity of Alouette Lake.

Mount Judge Howay Recreation Area was established at the same time as Golden Ears Park, and was upgraded to Class A park status in 1990. Mount Judge Howay Park was added to Golden Ears Park in 2000.

In 1997, the Mystic Lakes area was identified for protection through the Lower Mainland Protected Areas Strategy process, and 781 hectares were added to Golden Ears Park. The Mystic Lakes area is located on the western slopes of the park and protects a system of lakes in the headwaters of Fish Hatchery Creek which flows west into the Upper Pitt River.

Situated within the Coast Mountains, Golden Ears Park features spectacular mountain peaks, including the peaks of Mount Blanchard, referred to as the "Golden Ears" which feature prominently in the Lower Mainland. Golden Ears Park contains the headwaters of three major rivers: Stave River, Alouette River, and Upper Pitt River, and more than twelve smaller tributary creeks.

The park attracts visitors from across the Lower Mainland and other areas to enjoy camping, hiking, horseback riding, and lake-oriented activities such as swimming, fishing and boating. Alouette Lake is suitable for swimming in the summer months and has three popular sandy beaches. Although the lake is not within the park boundaries, its western and southern shores are in the park and are the main focus of recreation. Within the park, an extensive trail system provides opportunities for hiking, backpacking, biking and horseback riding. Golden Ears Park features three campgrounds—one of which is the largest in the province—and two popular day use areas. The day use area at the southern end of Alouette Lake receives thousands of visitors per day during summer weekends.

The primary access to Golden Ears Park is by the main park road, Golden Ears Parkway, via Fern Crescent in Maple Ridge. There is access to the east side of the park by way of 256<sup>th</sup> Street, although this road travels through private land and is gated to prevent access. The access road from 248<sup>th</sup> Street is gated at the correctional facility; the road beyond is privately owned and public access is not condoned.

The west side of the park borders Pitt Lake and is accessible only by boat. A small section of the park borders Stave Lake in the east and is also accessible only by boat.

# 1.3 Legislative Framework

Golden Ears Park is a Class A park named and described in Schedule C of the *Protected Areas of British Columbia Act*. Management activities and development are constrained by the *Park Act*. Class A parks are dedicated to the preservation of their natural environments for the inspiration, use and enjoyment of the public.

# 1.4 Adjacent Patterns of Land Use

Golden Ears Park occupies the majority of land bridging the watersheds of the Pitt and Stave rivers, extending northward to the southern boundary of Garibaldi Park. The park is predominantly bordered by forested lands managed as part of the Chilliwack Forest District. The park boundary adjoins three lakes—Pitt Lake to the west, Alouette Lake to the south and Stave Lake to the east in the vicinity of Clearwater Bay.

Alouette Lake functions as a hydro-electric reservoir, operated by BC Hydro. The reservoir was created in 1928 to provide power to the province. The Alouette Dam is located on private property at the southern end of Alouette Lake, adjacent to the park boundary and day use area. This dam controls the reservoir which encompasses Alouette Lake and regulates water levels in the lake. BC Hydro cooperates with BC Parks to maintain high reservoir levels in the summer for recreation.

There are a number of private properties and communities adjacent to the park including Williams Landing on Pitt Lake and the community of Silver Valley at the south end of the park in the municipality of Maple Ridge.

The UBC's Malcolm Knapp Research Forest encompasses 5,157 hectares of coastal forest from the eastern shore of Pitt Lake to the western boundary of Golden Ears Park. The primary focus of the research forest is to encourage and facilitate research and educational use, but the research forest is also recognized as an important area for community recreation. Recreational opportunities include walking and hiking trails, canoeing and rock climbing. To protect the integrity of the site, some access restrictions apply (e.g., to prevent access to research plots and active logging areas).

The Pitt-Addington Marsh Wildlife Management Area encompasses 2,972 hectares of marsh, wetland, and tidal mudflat habitats where Pitt Lake flows into the Pitt River. The Pitt-Polder Ecological Reserve is situated within the core of the Wildlife Management Area and protects a fragment of the rapidly disappearing Fraser Valley bog lands. Grant Narrows, managed by Katzie First Nation, is situated within the Wildlife Management Area and is the primary boat launch for park visitors accessing marine sites on the western half of Golden Ears Park. The goals of the Wildlife Management Area are to maintain and enhance wildlife and their habitats, and provide a range of public recreation and education opportunities, subject to the maintenance of wildlife populations. Recreational activities permitted within the Pitt-Addington

Marsh Wildlife Management Area include walking, wildlife viewing, nature study, hiking, jogging, cycling and limited seasonal hunting.

Blue Mountain, located on the southeastern shore of Alouette Lake is an area of forested Crown land approximately 400 hectares in size that is managed under a woodlot licence. The *Forest Act* and *Forest and Range Practices Act* regulate land use and natural and cultural resource management on Crown land in British Columbia. Blue Mountain provides opportunities for recreational activities such as hiking and horseback riding as well as motorised sports including motor biking, all-terrain vehicle use and snowmobiling. Motorised activities are not permitted within Golden Ears Park; however there have been issues with unauthorised motorised access into the park, predominantly on the east side of Alouette Lake, in the vicinity of Blue Mountain. The provincial ministry responsible for recreation sites and trails is working to manage recreation in the Blue Mountain area, including designating motorised and nonmotorised trails, and developing parking areas and signage. BC Parks is engaged in this process and is working with adjacent landowners to prevent motorised access into the park.

# 2.0 Values and Roles of the Park

# 2.1 Significance in the Protected Areas System

Golden Ears Park is significant in the protected areas system because it:

- Contributes to the protection of a connected mosaic of wilderness totalling 2,875 square kilometres, one of 12 large protected complexes in the province;
- Is one of the most visited parks in the province offering a wide range of recreation opportunities to people in the Lower Mainland;
- Contributes significantly to the protection of the headwaters of three large river systems in the Lower Mainland: the Stave, Alouette, and Upper Pitt rivers.
- Protects habitat for a number of species at risk including a threatened population of Grizzly Bear (the Garibaldi-Pitt population unit), rare plants, and red- and blue-listed insects, amphibians, mammals, and fish.
- Protects significant winter range habitat for ungulates, including Mountain Goat.
- Contains archaeological evidence of habitation and other important cultural sites including pictographs.

# 2.2 Natural Heritage Values

#### Water

Golden Ears Park is bordered by three large lakes that provide the primary focus for recreation in the park: Alouette Lake, Pitt Lake and (to a lesser extent) Stave Lake. While these lakes attract visitors to the park for boating and other water-oriented activities, they are not within the park boundary.

In the frontcountry of the park, important aquatic features include Mike Lake, the Alouette River, Gold Creek, and the bog habitats accessed by the Spirea Nature Trail.

Backcountry areas of the park, although difficult to access, feature mountain lakes, rivers and streams including Thomas, Tingle, Judicator, and Kunzelman lakes, the Mystic Lakes area, Tingle Creek, Raven Creek, Glacier Creek, Moyer Creek, and the North Alouette River.

#### Vegetation

Golden Ears Park spans three ecosections—Eastern Pacific Ranges, Southern Pacific Ranges and the Fraser Lowlands. The predominant ecosystems in the park include three biogeoclimatic zones: Mountain Hemlock, Coastal Western Hemlock, and Coastal Mountain-Heather Alpine. Golden Ears Park provides protection for over 4,000 hectares of the under-represented Coastal Western Hemlock dry maritime biogeoclimatic subzone, comprising 15% of the subzone's total area that is within the province's protected areas system.

The Alouette River valley was the site of major railroad logging operations in the 1920s, which harvested the majority of large old growth cedar and hemlock in the valley. In 1929 a severe fire permanently ended all forest harvesting. Today, second growth forest masks much of the evidence of past logging. Some of the forest has regenerated at different rates, becoming a mosaic of both deciduous and coniferous species. However, there are large stands of even-aged forest—a result of past logging and fire—that are not representative of the historic composition and structure of the forest. There are also a number of old growth stands throughout the park, including in the southern end of the park at Moyer Creek and Gold Creek, the latter of which is readily accessible from the East Canyon Trail.

Due to a diversity of terrain and elevation, Golden Ears Park supports a range of forest communities. Vegetation varies from dense understory vegetation, such as red alder and vine maple below canopies of Douglas-fir and amabilis fir, western hemlock and yellow-cedar, to sparse high elevation krummholz trees associated with white mountain-heather, mosses and lichens. While its presence has not been confirmed, the red-listed Douglas-fir—lodgepole pine/oceanspray/reindeer lichen plant community may be present at lower elevations in the southern end of the park. The plant community occurs in small patches within the Coastal Western Hemlock dry maritime biogeoclimatic subzone and is located on ridge crests, hilltops and south-facing slopes (Warttig and Inselberg, 2010); site conditions that are found along the eastern shore of Pitt Lake and the shores of the lower Alouette Lake.

Several species of rare vascular plants occur, or are believed to occur, in Golden Ears Park. There is a known occurrence of the blue-listed snow bramble on Alouette Mountain. This lowlying perennial species is associated with moist forests and glades in the montane zone and is rare in southern British Columbia. The blue-listed coastal wood fern, bigleaf sedge, and Menzies' burnet have been confirmed within the UBC Malcolm Knapp Research Forest and likely occur in the park as well.

Golden Ears Park has suffered outbreaks of Western Hemlock Looper, a defoliating insect native to British Columbia that usually affects mature stands and can result in tree mortality. The last large outbreak was in 2000, and although larvae were present in the park, there was no significant defoliation<sup>1</sup>. A similar outbreak occurred in the Coquitlam watershed and Metro Vancouver allowed natural processes to successfully bring the Looper infestation under control. The forest openings created as a result of the outbreak promoted forest regeneration, adding diversity to the forest stand structure.<sup>2</sup> The Province continues to monitor and treat infestations, although Western Hemlock Looper outbreaks are considered to be natural disturbance events that are important in the life cycle of the forest.

<sup>&</sup>lt;sup>1</sup> Ebata, Tim (2011). Personal communication via email, October 24, 2011.

<sup>&</sup>lt;sup>2</sup> Golds, Elaine (2013). *Comments on the Golden Ears Provincial Park Draft Management Plan*. Submission via email, February 15, 2013.

#### Wildlife

The diversity of habitats in Golden Ears Park supports a large variety of bird, amphibian, fish, insect and mammal species.

Two red-listed insect species, Johnson's Hairstreak (butterfly) and Grappletail (dragonfly), occur in the vicinity of the park, as well as two blue-listed dragonflies: Autumn Meadowhawk and Beaverpond Baskettail. These species have been observed in the UBC Malcolm Knapp Research Forest and likely occur in the park, although this has not been confirmed.

Nearly 140 species of birds have been recorded in the park.<sup>3</sup> The Mike Lake area is regarded as the best birding site in the park. Species found in this area include waterfowl, vireos, warblers, Common Loon, Pied-billed Grebe and flycatching birds including Cedar Waxwing, Willow Flycatcher and swallows. The red-listed Northern Goshawk (*laingi* subspecies)<sup>4</sup> and blue-listed Green Heron and Great Blue Heron likely occur in the park.

The bog accessed by the Spirea Nature Trail is good for viewing birds, aquatic insects, and amphibian and reptile species. Several rare amphibians and reptiles have been reported in the park and include the blue-listed Coastal Tailed Frog and Northern Red-legged Frog, the red-listed Painted Turtle (Pacific Coast population) and the Pacific Giant Salamander.

Smaller mammals are abundant in the park, including several species of moles and shrews, Snowshoe Hare, Douglas Squirrel, Yellow-pine Chipmunk, Northern Flying Squirrel, and bats. The red-listed Pacific Water Shrew was recently discovered in wetland areas at the southern end of the park. Golden Ears Park supports two subspecies of Snowshoe Hare including the redlisted subspecies *Lepus americanus washingtoni*, which is found within the lower elevations at the southern end of the park.<sup>5</sup>

Since the early 2000s, a number of American Beaver have been released into Mike Lake in an effort to reintroduce this species to this part of the park. Reintroduction efforts have had limited success, although beaver damming of the lake has resulted in sustained lake levels. The surrounding forest lacks adequate diversity of deciduous browse species to support beaver, so careful management is required to ensure their long-term viability.

The park provides habitat for larger mammals including the Black-tailed Deer, Mountain Goat, American Black Bear, Cougar, and the blue-listed Grizzly Bear and Wolverine (*luscus* subspecies). Bobcat, Marten and the blue-listed Fisher also occur in the park. Roosevelt Elk

<sup>&</sup>lt;sup>3</sup> Grass, Al (1995). *Golden Ears Provincial Park Bird Checklist*. British Columbia Wildlife Watch, from the website http://www3.bc.sympatico.ca/driftwood/bcwwhome.htm.

<sup>&</sup>lt;sup>4</sup> MFLNRO and MOE (2013). *Management Plan for the Northern Goshawk, laingi subspecies (accipiter gentilis laingi) in British Columbia*. January 2013, 40 pp.

<sup>&</sup>lt;sup>5</sup> Evans, Jack (2013). *MFLNRO Comments, Golden Ears Provincial Park Draft Management Plan document dated Dec.2012.* Submission via email, February 14, 2013.

were reintroduced in the upper Stave Lake and Pitt Lake areas between 2005 and 2008 and occur within the park.

The park is situated within the Garibaldi-Pitt Grizzly Bear population unit (GBPU), a threatened population unit. Grizzly Bears have been recorded in the upper Pitt River watershed, so it is possible Grizzly Bears occur in low numbers in the northern regions of the park<sup>6</sup>. The Sea to Sky Land and Resource Management Plan (LRMP) states a goal to "achieve and maintain a viable status for each of the four grizzly bear population units that overlap the plan area." To reach this goal, the Sea to Sky LRMP requires the development and implementation of recovery plans for each of the four GBPUs – including the Garibaldi-Pitt population unit.

#### Fish

The lakes, rivers, and tributary streams of Golden Ears Park provide habitat for more than twenty species of fish. Damming of the Alouette River in 1928 reversed most of the outflow drainage and blocked spawning migrations of Sockeye, Chinook, Pink, Coho, Chum, Steelhead and possibly sea-run Cutthroat Trout. Chinook utilized Gold Creek as their preferred natal stream. Damming resulted in localized extinction of several stocks and decreased the natural nutrient load to Alouette Lake.

Since 2000, there have been major efforts to re-establish spawning salmon to Alouette Lake by the Alouette River Management Society, Katzie First Nation, BC Hydro, and other partners. Salmon smolts have been released into the lake to assess their success in migrating downstream over the dam spillway. Fish are captured in a trap below the spillway in order to assess levels of escapement. One of the significant results of this work has been the successful migration of Kokanee from the lake. Some of these fish have been tracked into the Salish Sea, resulting in their nickname "Sockanee". Subsequently, efforts are underway to assist the return of migrating salmon to the lake, through the trapping and trucking of fish upstream around the dam.

Bull Trout, a blue-listed species, has been observed spawning in Gold Creek up to Lower Falls<sup>7</sup>. Surveys of Moyer Creek and the North Alouette River are planned to determine the extent of Bull Trout spawning areas in the Alouette reservoir.

Due to impacts associated with damming, nutrient levels in Alouette Lake are low. The Alouette Reservoir Fertilization Project, sponsored by BC Hydro, regularly provides supplemental nutrients to the lake to restore the reservoir to its historical productivity. The fertilization project is reviewed on a 5-year basis to confirm that the project is continuing to meet its productivity objectives. As long as the project continues to be successful in maintaining aquatic productivity, BC Hydro will continue to support fertilization of the lake.

<sup>&</sup>lt;sup>6</sup> Rochetta, Steve (2011). Personal communication via email, September 15, 2011.

<sup>&</sup>lt;sup>7</sup> Willcox, Mike (2012). Personal communication via email, November 8, 2012.

Pygmy Longfin Smelt is a red-listed fish that has derived from Longfin Smelt to establish independent populations in Pitt Lake, Harrison Lake and Lake Washington. This species is preyed on by Chinook Salmon, Rainbow Trout and White Sturgeon. Pygmy Longfin Smelt are believed to spawn in inlet streams in November or December, so habitat could include creeks within the park that flow into Pitt Lake. There is little known about their biology, abundance and population trends.

# Natural Heritage Role

- Protects a large, remote wilderness area located in close proximity to a large urban centre.
- Provides protection for over 4,000 hectares of the Coastal Western Hemlock dry maritime biogeoclimatic (BEC) subzone, which represents 15% of this BEC subzone found in the protected areas system.
- Provides habitat for species that are dependent on minimal human disturbance, including Grizzly Bear, Wolverine, Grey Wolf and Mountain Goat.
- Protects habitat for a number of species at risk including: the threatened Garibaldi-Pitt Grizzly Bear population unit, the red-listed Johnson's Hairstreak butterfly, Grappletail dragonfly, Pacific Water Shrew, Snowshoe Hare (*Lepus americanus washingtoni*), Painted Turtle, Pacific Giant Salamander, Northern Goshawk (*laingi* subspecies) and Pygmy Longfin Smelt.

# 2.3 Cultural Heritage Values

# First Nations' Historical and Ongoing Use

Golden Ears Park is situated within the traditional territories of the Katzie First Nation, Kwantlen First Nation, Matsqui First Nation, Tsawwassen First Nation, Sto:lo Nation, In-SHUCKch Nation, Sts'Ailes First Nation and the St'at'imc/Lillooet Tribal Council.

For thousands of years First Nations have occupied and used the area that is now encompassed by the boundaries of Golden Ears Park for hunting, trapping, fishing, and gathering, and for social and ceremonial purposes. Oral histories, ethnographies, and results of archaeological studies describe use by First Nations in Pitt Lake, the upper Pitt River, Stave Lake, and Stave River. These sources emphasise the economic and cultural importance of this area to the First Nations. For many First Nations, the land, water and natural resources found within the boundaries of Golden Ears Park continue to hold spiritual, economic and social value.

The Katzie people once maintained at least ten ancient villages within their traditional territory, several of which were situated in close proximity to Golden Ears Park. In addition, seasonal encampments and sacred sites were located in adjacent upland areas, many of which are now encompassed by the park. Katzie's three residential reserves are situated within ten kilometres of the park boundary.

Ethnographic sources indicate that Katzie use is primarily associated with the southern and western portions of the park, in the vicinity of Pitt Lake and Alouette Lake. Katzie oral histories and ethnographic sources suggest that Katzie members travelled overland between Pitt Lake and Alouette Lake for various resource gathering activities, including deer and Mountain Goat hunting, and fishing. Stone tools from archaeological sites along the western shore of Alouette Lake indicate that fishing has been taking place within the area for thousands of years (Katzie First Nation, 2011). Both anadromous and freshwater fish were harvested in the park area including five species of Pacific salmon, Steelhead, and trout. The construction of the Alouette Lake dam blocked the passage of Pacific salmon and Steelhead populations which spawned in Alouette Lake and River. Katzie is working in partnership with BC Hydro and the Alouette River Management Society in ongoing efforts to return salmon stocks to Alouette Lake and its rivers.

The surrounding watersheds and riparian areas were used for plant gathering. Some of the many plant resources harvested include cedar bark, berries and Wapato (*Sagittaria latifolia*). In an effort to ensure plant resources are available for future generations, Katzie is engaged in a long-term study documenting the diversity and abundance of plants in the riparian zone of Alouette Lake. Preliminary field observations suggest recreational users may be impacting these ecosystems, in particular where camping and day use is occurring in undesignated sites.

First Nations harvested mammals, grouse and waterfowl in the park area. Mammal species harvested included Mule Deer, Roosevelt Elk, Mountain Goat, Black Bear, and other smaller animals such as American Beaver and American Marten.

The St'at'imc and Lillooet people are associated with the park's northern sections, including areas in the vicinity of Tingle Creek and the upper Stave River. A historic trading route once existed through the park. First Nations groups from the Interior used the route to access seasonal resources in the upper Stave and Pitt watersheds, and it is possible that the route was also used as a trade corridor to the Interior. Current research indicates that the corridor may be evidenced in the form of trails that connect to Alouette Lake.

Kwantlen First Nation is primarily associated with the Stave Lake and Stave River, both situated in the southeast area of the park. This area was used extensively for hunting and trapping and was an important training ground for Kwantlen youth and other Sto:lo hunters.

There are 13 registered archaeological sites within the park boundaries and several more located just outside the park. Archaeological sites include lithic scatters, pit features and rock art sites. The number and variety of archaeological sites indicate the land and resources now situated within the park boundaries were used for many years; some year-round, and others on a more seasonal basis. The majority of these archaeological sites are in areas of recreational use, and will require careful management to prevent disturbance.

In 2009, the Tsawwassen First Nation Final Agreement was ratified (Treaty). The Tsawwassen Wildlife Harvest Area, Tsawwassen Migratory Bird Harvest Area, and Tsawwassen Plant Gathering Area overlap Golden Ears Park as defined in the Tsawwassen First Nation Final

Agreement. Under Treaty, Tsawwassen First Nation has the right to harvest wildlife and migratory birds and gather plants within Golden Ears Park for domestic purposes, subject to an approved gathering plan.

#### History of Industrial Resource Use

In 1897, a copper mine was opened in the park area which operated an aerial tramway from the mine site located approximately a kilometre east of Pitt Lake down to the lake. During the 1920s, Lougheed and Abernathy Logging Company and B&K Logging Company logged the eastern shores of Pitt Lake and most of the southern portion of the park. During this time, the park area was the site of the largest railroad logging operation in North America. Reminders of the logging era are evident throughout the park in the form of charred stumps, abandoned steam donkey sleds and railroad ties.

Originally, Alouette Lake was two lakes, called the "Lillooet Lakes", which were separated by a short stretch of the Alouette River. In 1926 the Alouette Dam was constructed across the Alouette River at the south end of Alouette Lake. The subsequent flooding created a 17 kilometre-long reservoir. The Alouette Lake reservoir became part of the interconnected Alouette-Stave-Ruskin generating system when a tunnel was bored into the northeast corner of the reservoir to divert water to Stave Lake. The system generates electricity for BC Hydro and provides flood control for the Alouette River.

In 1927, the Dominion Forestry Service started three tree plantations in the area that is now in the southern portion of the park to test the suitability of certain exotic tree species to the coastal climate. Eight different species remain, including the Giant Sequoia, Dahurian Larch, Japanese Larch, Red Oak, White Ash, Sugar Maple, White Spruce, and Scotch Pine. These trees are found in several groves which are situated in the southern end of the park.

# **Cultural Heritage Role**

- Protects an area where First Nations can continue to practice fishing, hunting and gathering, social, and ceremonial activities.
- Provides an opportunity to inform the visiting public about British Columbia's logging history.

# 2.4 Recreation Values

With a variety of land- and water-based recreation, Golden Ears Park plays a significant role for outdoor recreation and tourism in the region. The value of the recreational opportunity available in the park is magnified by its close proximity to the large population base of the Lower Mainland.

#### **Boating and Canoeing**

Lakes within and bordering Golden Ears Park provide a wide variety of boating opportunities. Pitt and Stave lakes are excellent for motor boating, as is Alouette Lake, which is also suitable for sailing, kayaking and canoeing. The Alouette Lake reservoir is drawn down in the fall, although lake elevation is maintained above 121.25 metres between May (Victoria Day) and September (Labour Day) for recreational purposes. Floating debris, exposed stumps and shoals during low reservoir levels can be hazardous to recreational users. The areas around BC Hydro's dam and intake facilities are also hazardous.

There is a boat launch in the park at Alouette Lake, and a commercial canoe rental. An 8 km/h speed zone applies to the southern portion of Alouette Lake but there are no horsepower restrictions.

A boat launch for Alouette Lake is located north of the day use area, with an adjacent parking lot for approximately 100 boat trailers and vehicles. This boat launch and parking area are often crowded on busy summer weekends, with lineups of boaters extending to the main access road, waiting to access the boat launch and parking. Public boat launches outside the park provide access to Pitt Lake and Stave Lake.

Increased erosion associated with wakes from boating is affecting the stability of the shoreline of Alouette Lake and potentially impacting archaeological sites. There is also a concern that boaters are landing their boats in areas where they are impacting the riparian area and potentially impacting archaeological features. Furthermore, there is an issue with motor boats entering into the mouth of Gold Creek which presents a safety risk to other park visitors in this popular swimming area.

Stumps, logs and debris pose hazards to boaters, including at boat landing sites. While stumps can pose hazards and be unsightly, they also provide fish habitat. Care must be taken in the removal of any stumps and other woody debris from the wetted perimeter of the lake.

# Hiking

Golden Ears Park offers an extensive system of hiking trails of varying length and difficulty, leading to lookouts, waterfalls and alpine areas. Self-guided nature trails allow easy exploration of some of the park's natural values, within a relatively short walking distance.

Over sixty kilometres of trails provide access to some of the more remote areas of the park including Alouette Mountain and the "Golden Ears" of Mount Blanshard. There are also hiking routes to Mount Robie Reid, Mount Nutt, and to other wilderness areas of the park.

# Horseback Riding

Horseback riding is a popular activity within Golden Ears Park. Its popularity in the park has increased since the completion of the Golden Ears Bridge, which makes the park readily accessible to equestrians from Langley and other communities south of the Fraser. Maple Ridge has a large equestrian community, with several bridle trails leading from adjacent rural areas into the park.

A horse parking area called the "Horse Corral" is located near the park entrance and several hitching racks are located within the park. A number of trails are designated for equestrians, including the Alouette Valley Trail, the Incline and Fire Access Trail, Mike Lake Trail, Menzies Trail, Alouette Mountain Trail, and East Canyon Trail. A slope failure on the East Canyon Trail has made the section to Hector Ferguson Lake impassable to horses.

Through the planning process BC Parks heard from equestrian stakeholder groups, including the Back Country Horsemen of BC and the Haney Horsemen, that the equestrian facilities in the park are deteriorating and are no longer meeting the needs of equestrian users. Equestrians called for improved and new equestrian facilities, including trails and backcountry horse camps, as well as accommodations to enable equestrians the opportunity to camp in frontcountry areas of the park.

#### **Mountain Biking**

Mountain biking is permitted on park roads and on some of the trails including the Fire Access Trail, the East Canyon Trail, the Menzies Trail, the Eric Dunning Trail, and the North Beach Service Road.

A full list and description of the park trails are provided in Appendix 2.

#### Day Use

Day use activities within Golden Ears Park are very popular, with some 100,000 parties visiting the Alouette Lake day use areas annually. Parking for the South Beach day use area accommodates a maximum 850 vehicles between two lots. The maximum capacity is reached on several occasions each year and the main gate is temporarily closed until parking spots become available.

The portion of the park on the eastern shore of Alouette Lake provides the best opportunity to expand boat-accessible day use and lake-oriented activities.

Both the South Beach day use area and east side of Alouette Lake are adjacent to the Alouette Dam; the dam and areas where discharge facilities are located can be extremely dangerous to the recreating public.

Backcountry day use is often limited by gate closures which restrict access and don't take into account the schedules of backcountry users who often start early in the day and return after nightfall. Road closures in winter are also restricting access to trailheads for snowshoeing and cross-country skiing. While gate closures are required as a measure of public safety, the timing of gate closures and the location of the gate are both issues that need to be reviewed.

# **Frontcountry Camping**

Alouette Lake offers one of the largest vehicle-accessible camping areas in the province, providing a total of 450 campsites located within three campgrounds and two group sites. Alouette campground offers 205 sites, Gold Creek campground 148 sites (including two barrier-

free sites), and North Beach campground 55 sites. The remaining sites are within the group campsites.

# **Backcountry Camping**

There are designated backcountry campsites at Alder Flats, near the mountain shelter on the Golden Ears Trail, and at Viewpoint Beach and Half Moon Beach on the East Canyon Trail. The campsites at Alder Flats are situated in the riparian area of the creek which results in greater potential for wildlife encounters and impacts to riparian habitats. Lake Beautiful was closed to camping as a result of the 1976 management plan. This small sub-alpine lake, located in close proximity to the Alouette Mountain Trail, is highly sensitive to recreational use, and is therefore not a suitable location for backcountry campsites.

There are designated backcountry campsites on the shores of Pitt Lake, at Raven Creek, North Osprey Creek and South Osprey Creek. On Alouette Lake, marine campsites are located at Moyer Creek, Alouette Lake Narrows, and at the Alouette River Inlet. All marine campsites are accessible only by boat.

Unregulated camping and day use along the western shoreline of Alouette Lake has been observed to be causing increased shoreline erosion, point source pollution from human and boat waste, and trampling of culturally and ecologically significant plant resources. It is possible that this use is resulting in the reduction of species richness in the littoral zone, and may also be disturbing archaeological sites and spreading invasive species. The collection of coarse woody debris for campfires is potentially damaging littoral ecosystems and corresponds with a greater fire risk in these areas, particularly when unauthorised campfires occur during fire bans.

# Winter Recreation

Golden Ears Park provides limited opportunities for winter recreation. The Gold Creek campground, backcountry campsites, and all trails remain open to winter visitors. When snow cover is sufficient, park visitors can snowshoe and cross-country ski on park trails. Winter recreationalists have expressed concerns with gate closures which limit access to the park in the winter months.

# Hunting and Fishing

Golden Ears Park is closed to hunting and the discharge of firearms, bows and crossbows under provincial regulation. Trapping is not permitted in Golden Ears Park. However, the exercise of aboriginal rights to fish, hunt, trap, and gather continues within the park boundaries.

Alouette Lake has been stocked with Rainbow Trout, Cutthroat Trout, and Steelhead but is no longer stocked due to the lake's large size and successful natural production. Gold Creek was last stocked in 1983 with Steelhead. Thomas Lake and Mike Lake have been stocked with Rainbow Trout.

A native population of coastal Cutthroat Trout (*Oncorhynchus clarkii clarkii*) was historically present in Mike Lake, and was recorded there prior to lake stocking. The *clarkii* subspecies of

Cutthroat Trout is blue-listed, and populations in the Lower Mainland are in serious decline. There is a chance that there is a viable population in Mike Lake which could recover if stocking ended. Stocked fish compete with native populations for food and habitat. Along with stocking, fishing at Mike Lake may be having an adverse impact on the native Cutthroat Trout population.

The Alouette River is closed all year to fishing above signs near the Alouette River Corrections Unit, and above 216<sup>th</sup> Street (including the North Alouette River) between May 1 and June 30 to protect spawning salmon runs.

# Aircraft Access

Levels of aircraft use to these backcountry lakes are not well understood, and BC Parks does not have an understanding of whether or not aircraft operators are accessing the more remote areas of the park.

Mountain Goat is an easily stressed species and human use, in particular aircraft use, is known to cause distress and habitat avoidance in Mountain Goat. Mountain Goats are particularly sensitive to helicopter disturbance. The provincial Mountain Goat Management Plan (Ministry of Environment, 2010) recommends that helicopters keep a distance of 2,000 horizontal metres and 400 vertical metres from Mountain Goat habitat. Wolverine is another species that occurs in the park and is known to be negatively affected by aircraft and human use. Any aircraft access to the park will need to be managed to minimise impacts to Mountain Goat and Wolverine which will require further assessment and monitoring.

Floatplane landings occur on Alouette Lake. There have been issues with interactions between boats and floatplanes; there is a need to educate boaters that floatplane landings are permitted on the lake.

# Visual Landscape

The many mountain peaks, valleys, lakes and streams within Golden Ears Park combine to create diverse and spectacular views. Visitors to the park are often drawn to the shores of Alouette Lake, where much of the park's activity is focused. However, most of the forested slopes surrounding the eastern shore of the lake are not within the park boundary, and the land is subject to forest harvesting and potential development.

Forest regeneration has impeded views of Alouette Lake from the park access road and at key viewpoints and lookouts. The lack of natural disturbance in the frontcountry areas of the park has also resulted in uniform forest age and structure. This has reduced light penetration to the forest floor, preventing the growth of plants in the sub-canopy. This is an issue in the park campgrounds which can be dark, with little vegetation between sites to provide privacy. Selective tree cutting around campgrounds in other parks in the region has been successful in restoring undergrowth and improving light conditions in campgrounds.

The dam, tree stumps, and low water levels can detract from the visual quality of Alouette and Stave lakes, especially during the fall when lake levels are drawn down.

#### **Recreation**—Role

- Provides a wide range of recreational experiences, including wilderness experiences, in close proximity to a large urban centre.
- Provides the largest vehicle-accessible campground in the province.
- Provides a system of trails for park users with a diverse range of abilities and activities which includes trails for hiking, horseback riding, and mountain biking.
- Provides a range of recreational opportunities focussed on a lake setting, including picnicking, swimming, boating, and backcountry marine camping.

# 2.5 Commercial Recreation and Services

Golden Ears Park is part of a bundle of parks operated under contract with a park facility operator. The park facility operator manages the frontcountry areas of the park, including all the vehicleaccessible campgrounds, the day use area on the east side of Alouette Lake and trails within onekilometre of the main access road. The park facility operator currently runs a concession store and a canoe rental operation.

There is a multi-year commercial recreation permit for a trail running race which is held in the park.

Golden Ears Park is a popular location for commercial filming. Filming primarily occurs in the frontcountry areas of the park. As filming typically occurs in areas where there are high levels of public use, it is important that filming activities do not unduly inconvenience with the public's use and enjoyment of the park.

# 2.6 Encumbrances

BC Hydro holds a park use permit for a transmission line and associated structures. The transmission line crosses Golden Ears Park south of Alouette Lake, in the vicinity of the park access road. This section of the transmission line is being upgraded and twinned as part of the Interior-to-Lower Mainland project.

Two provincial ministries also hold park use permits associated with other infrastructure including waterlines and communication sites.

# 2.7 Education and Research

#### Education

With its proximity to the Lower Mainland and high numbers of visitors, Golden Ears Park provides excellent opportunities for public education and interpretation.

Wherever possible BC Parks should seek opportunities to: 1) expose park visitors to the park's cultural and natural history, 2) present key messages around no-trace camping, being "bear

aware", and preventing the spread of invasive species, and 3) educate park visitors on the role they can play in protecting wildlife and sensitive habitats.

Visitors to Golden Ears Park are presented with a number of opportunities for education and outdoor study. There are interpretive nature trails with signage describing natural features as well as the park's cultural history and heritage. The Spirea Nature Trail offers interpretive panels along a barrier-free trail. The Tiarella Nature Trail is a self-guided interpretive trail in close proximity to the Alouette campground; this trail has deteriorated over recent years and is in need of upgrades.

During the summer season, interpretive programs have been offered by the park facility operator to assist visitors in understanding and enjoying the park.

The Katzie Cultural Education Society holds a park use permit to operate educational programs at North Beach at a facility called the Outdoor Learning Centre. The Outdoor Learning Centre provides cultural and environmental education for students throughout the Lower Mainland. Educational programs and activities at the centre have been reduced since the longhouse burned down in 2006. A new shelter, recently installed, is expected to improve the delivery of educational activities at the site.

#### Research

BC Parks needs to explore opportunities to partner with local organisations and academic institutions, including the UBC Malcolm Knapp Research Forest, on research and inventory projects in the park. Priorities would be on projects that focus on providing information to assist in adaptive park management, including studies on forest and ecosystem health, invasive species, climate change (and associated management implications), species and communities at risk, and the status of key wildlife populations (e.g., Mountain Goat, Wolverine, and Grizzly Bear).

Citizen science could be explored as an approach for engaging park visitors and volunteers in park research, while providing a valuable educational opportunity for the public.

There may also be opportunities to partner with First Nations in researching the archaeological and ethnographic histories associated with the park, to contribute to our understanding of the cultural values associated with the area.

Currently there are two active research permits in the park for research related to bats and stickleback.

# 3.0 Management Direction

# 3.1 Vision

The vision below was developed from input received during the stakeholder session of the planning process for this management plan.

Golden Ears Park is a place where park visitors can experience wilderness, ecosystems are conserved, and important ecosystem values such as species-at-risk are understood and protected. Here, park visitors can develop a better appreciation of nature through a well-maintained network of trails that provides park visitors with a range of opportunities to enjoy the park's natural surroundings. Park visitors can also enjoy recreating in a lakeside setting while having a minimal impact on ecosystems and archaeological values.

Golden Ears Park is a place where First Nations can practice their culture, and where park visitors can learn about and celebrate First Nations' traditions and history.

Volunteerism is a core asset to Golden Ears Park and is recognised as a way for people to connect with, and develop a commitment to the park and its values.



Plate 1. View of Mount Robie Reid from Glacier Bay in Stave Lake.

# 3.2 Management Issues, Objectives, and Strategies

The following table summarizes the management issues, objectives and strategies for the park.

Management Context	Management Objectives and Strategies			
Protect ecosystem values from recreational impacts.	Objective: Develop appropriate facilities and infrastructure to mitigate impacts from recreational use.			
recreational impacts.	Specific strategies:			
	• Maintain the closure to backcountry camping at Lake Beautiful.			
	<ul> <li>Install food caches, pit toilets, fire pits, and tent pads at all designated backcountry campsites, including marine sites.</li> </ul>			
	• Install garbage and recycling containers in the frontcountry areas.			
	<ul> <li>Relocate backcountry campsites at Alder Flats out of the riparian area.</li> </ul>			
	• Using BC Parks' Backcountry Recreation Impact Monitoring process, monitor impacts associated with backcountry camping and use in the riparian areas of Alouette Lake. Consider implementing campsite and/or area closures to minimise impacts.			
	<ul> <li>Using BC Parks' Backcountry Recreation Impact Monitoring process, monitor trail erosion and braiding. Realign or relocate trails as needed, and/or install boardwalks or other trail improvements required to reduce damage.</li> </ul>			
	• Work with appropriate agencies to provide designated boat landing sites (including docks and/or mooring buoys) at marine day use areas and campsites. Use signage to discourage boaters from accessing the shore at areas other than designated landing sites and access points.			
	<ul> <li>Provide signage at boat launches and other key access points and trailheads to promote no trace camping.</li> </ul>			
	• Provide educational signage on the ecological importance of coarse woody debris, and discourage collection of coarse woody debris for firewood.			
	Objective: Reduce impacts from erosion associated with recreational boating.			
	Specific strategies:			
	<ul> <li>Work with the appropriate regulatory agencies to implement speed restrictions in areas where shoreline erosion is occurring due to wake action.</li> </ul>			
	Maintain the closure to motorised boats at Mike Lake.			

Management Context	t Management Objectives and Strategies			
Protect ecosystem values from	Objective: Ensure aircraft access in the park is not impacting wildlife, ecosystem, and recreational values.			
recreational impacts (cont.).	Specific strategies:			
	<ul> <li>Work with the BC Floatplane Association and other groups to monitor levels of aircraft usage in the park. As needed, develop an Aviation Management Plan to manage aircraft access and use.</li> </ul>			
	<ul> <li>Recommend a regulatory change to only allow air access to the northern section of the Wilderness Recreation Zone by prior authorisation from a park officer or with a valid park use permit.</li> </ul>			
	• Assess the potential impacts of aircraft access on ecosystems and wildlife, including Mountain Goats, which are known to be particularly sensitive to aircraft. Consider implementing restrictions as required to protect Mountain Goat and other wildlife.			
	Objective: Ensure recreational use does not affect species and ecosystems at risk.			
	Specific strategies:			
	<ul> <li>Conduct plant and wildlife surveys before developing any new trails or campsites in areas of sensitive habitats.</li> </ul>			
	<ul> <li>Relocate and/or restrict recreational facilities and uses (e.g., trails, aircraft landings) if there is evidence they may be impacting Mountain Goat.</li> </ul>			
	• Undertake best management practices designed to protect species and ecosystems at risk, particularly in areas with known occurrences.			
	Objective: Prevent the spread of invasive species in the park.			
	Specific strategies:			
	Conduct invasive species inventory and monitoring.			
	<ul> <li>Use the BC Parks' Invasive Plant Threat Analysis approach to develop an action plan to address invasive species.</li> </ul>			
	<ul> <li>Work with UBC Malcolm Knapp Research Forest, BC Hydro, and provincial forest managers to address the spread of terrestrial and aquatic invasive species in the park.</li> </ul>			
	• Provide signage to inform park visitors about controlling the spread of invasive species, in particular at fishing sites and boat launches.			
	<ul> <li>Use mechanical/manual methods to control invasive species. Chemical methods may only be used if other prescriptions are ineffective.</li> </ul>			

Management Context	Management Objectives and Strategies			
Improve knowledge of park wildlife and ecosystems.	Objective: Improve our understanding of the status of ecosystems and wildlife populations in the park.			
ecosystems.	Specific strategies:			
	<ul> <li>Support research and inventory projects to improve knowledge of rare, endangered, and threatened species including population trends and habitat utilisation.</li> </ul>			
	<ul> <li>Support the research and inventory of sensitive and rare ecosystems using the Sensitive Ecosystem Inventory methodology.</li> </ul>			
	• Conduct surveys and delineate areas of Mountain Goat habitat in partnership with the Ministry responsible for the <i>Wildlife Act</i> .			
Maintain and manage	Objective: Support the research and recovery of wildlife populations.			
fish and wildlife populations in the	Specific strategies:			
park.	<ul> <li>Support reintroductions of native fish and wildlife species including species at risk where there are not unacceptable impacts to existing species.</li> </ul>			
	Support monitoring of fish and wildlife populations.			
	• Support the implementation of recovery plans for species at risk.			
	<ul> <li>Maintain the closure to hunting and the discharge of firearms, bows and crossbows.</li> </ul>			
	Objective: Support the recovery of native fish populations in the Alouette watershed.			
	Specific strategies:			
	<ul> <li>Work with BC Hydro to develop signage to educate park visitors on lake fertilization and fish habitat protection.</li> </ul>			
	• Conduct monitoring to determine the status and spawning habitats of the native fish populations in the park, including coastal Cutthroat Trout and Bull Trout.			
	• Develop a strategy to support the recovery of coastal Cutthroat Trout including the following:			
	<ul> <li>Only allow the stocking of sterile fish in Mike Lake.</li> </ul>			
	<ul> <li>Only allow the catch and release of coastal Cutthroat Trout.</li> </ul>			
	<ul> <li>Consider implementing a permanent fishing (and stocking) closure at Mike Lake if the above measures are not proving effective.</li> </ul>			
	<ul> <li>Provide signage and educational information on coastal Cutthroat Trout.</li> </ul>			

Management Context	Management Objectives and Strategies		
Maintain and manage	Objective: Establish a viable population of American Beaver at Mike Lake.		
fish and wildlife populations in the	Specific strategies:		
park.	• Support introductions of American Beaver to Mike Lake.		
(cont.).	<ul> <li>Complete an assessment of habitat restoration needs at Mike Lake, including an assessment of potential impacts on other species. Consider habitat improvements that support a range of aquatic- dependent species.</li> </ul>		
	Implement habitat restoration as required.		
Forest health and structure is altered by	Objective: Improve forest health to support ecological integrity.		
past and present	Specific strategies:		
disturbance.	<ul> <li>Develop a forest strategy to address forest health issues including seral stage distribution, insect and disease outbreaks, and fire management.</li> </ul>		
	<ul> <li>Work with the Ministry responsible for forestry to monitor Western Hemlock Looper outbreaks and allow natural processes to occur to bring the infestations under control.</li> </ul>		
	• Work in consultation with the Ministry responsible for forestry to allow natural wildfire in the Wilderness Recreation Zone whenever possible.		
First Nations traditional uses and cultural	Objective: First Nations continue to access and use the park area to practice and promote their culture.		
values to be recognised and protected.	Specific strategies:		
	• Work with First Nations to inventory traditional use areas and support the practice of traditional activities in the park.		
	• Work with First Nations to identify areas where they can cultivate and harvest native plant species for traditional use (e.g., Wapato).		
	• Work with Tsawwassen First Nation to implement the gathering plan for Golden Ears Park, as per the commitment under Treaty.		
	<ul> <li>Identify areas where cultural plants are being impacted by recreational use and develop strategies to address any impacts.</li> </ul>		

Management Context	Management Objectives and Strategies			
First Nations traditional uses and cultural	Objective: Increase park visitors' understanding of First Nations' historical and ongoing use of the park.			
values to be recognised and protected (cont.).	Specific strategies:			
	<ul> <li>Work with First Nations to provide educational information on First Nations history, values and traditional uses within the park.</li> </ul>			
	<ul> <li>Promote and encourage the delivery of educational programs and activities at the Outdoor Learning Centre.</li> </ul>			
	<ul> <li>Incorporate First Nations naming and language into park sites and signage.</li> </ul>			
	Objective: Ensure archaeological sites are not impacted by recreational use.			
	Specific strategies:			
	<ul> <li>Conduct archaeological assessments prior to constructing new recreational facilities.</li> </ul>			
	<ul> <li>Implement strategies (including temporary area closures) to prevent park visitors from impacting known archaeological sites.</li> </ul>			
	• Relocate facilities that are impacting known archaeological sites.			
Ensure recreational	Objective: Day use facilities are expanded to meet growing demand.			
facilities remain relevant for park	Specific strategies:			
visitors.	<ul> <li>Install a second dock at the South Beach boat launch.</li> </ul>			
	<ul> <li>Pursue an agreement with BC Hydro to provide for an equestrian parking lot on BC Hydro land adjacent to the South Beach day use area.</li> </ul>			
	<ul> <li>Develop a day use area on the east side of Alouette Lake with marine and hike-in access. Work in cooperation with adjacent land owners and managers to monitor and address any issues on adjoining lands.</li> </ul>			
	• Create a day use picnicking area at Glacier Bay on Stave Lake.			
	Objective: Trail networks are upgraded and expanded to include loop trails and viewpoints.			
	Specific strategies:			
	<ul> <li>Conduct an assessment of trail conditions and develop a strategy for trail maintenance and improvements.</li> </ul>			
	<ul> <li>Work in partnership with volunteer groups to monitor and maintain backcountry trails and facilities.</li> </ul>			
	• Develop a trail, including a footbridge across Gold Creek, to connect the East Canyon Trail to Alder Flats and the Golden Ears Trail.			

Management Context	Management Objectives and Strategies			
Ensure recreational facilities remain relevant for park visitors. (cont.).	• Re-establish views of Alouette Lake at points along the Golden Ears Parkway, on the Lookout Trail, Loop Trail and the Viking Creek Viewpoint Trail. Minimise the number of viewpoints and select areas that require minimal disturbance and cutting of mature trees.			
	• Develop a destination viewpoint on the East Canyon Trail.			
	Re-establish the trail to Hector Ferguson Lake.			
	• Upgrade the Lower Falls Trail to improve footing and drainage.			
	<ul> <li>Upgrade the Gold Creek Campground trails to wheelchair-accessible standards.</li> </ul>			
	Objective: Backcountry and marine camping opportunities are expanded to meet growing demand.			
	Specific strategies:			
	<ul> <li>Establish two marine backcountry campsites, with pit toilets and food caches, at Cottage Point on Stave Lake.</li> </ul>			
	• Develop a campground on the east side of Alouette Lake.			
	• Work with Katzie First Nation and the UBC Malcolm Knapp Research Forest to develop a hiking trail to Raven Creek campsite on Pitt Lake. Alternatively, develop a hiking trail connecting the Golden Ears Trail through Raven Lake to Raven Creek.			
	• Work with mountaineering community to delineate routes to Mt. Nutt, Mt. Robie Reid and Mt. Howay.			
	• Explore the development of a multi-use trail from Hector Ferguson Lake to the Osprey Creek Campground.			
	Objective: Park visitors have access to year-round recreational activities and amenities in the park.			
	Specific strategies:			
	<ul> <li>Work with the park facility operator and key stakeholders to develop procedures to improve year-round recreational access, including:</li> </ul>			
	<ul> <li>Winter access to park trailheads; and</li> </ul>			
	<ul> <li>Extended gate hours to facilitate backcountry day trips.</li> </ul>			
	<ul> <li>Consider proposals for the development of basic year-round accommodation including yurts, huts and/or cabins within the Intensive Recreation Zone.</li> </ul>			

Management Context	Management Objectives and Strategies				
Ensure recreational facilities remain relevant for park	Objective: Equestrian facilities are developed and maintained to support horse access in frontcountry and backcountry areas of the park.				
visitors. (cont.).	Specific strategies:				
	• Repair or replace existing equestrian facilities including hitching posts and corrals. Re-install the horse camp structures at Horsemen's Beach on the East Canyon Trail.				
	• Designate the Main Corral parking area for equestrian use only and install horse corrals. Encourage other users to park in the adjacent parking area on the east side of the park access road.				
	• Designate horse trailer parking in the overflow parking area at South Beach.				
	<ul> <li>Upgrade the Menzies Trail to improve footings and creek crossings to support continued equestrian use.</li> </ul>				
	• Develop ride-in campsites, with appropriate facilities, on the east side of Alouette Lake. Install hitching posts next to the beach area for day use.				
	• Develop a vehicle-accessible equestrian campground in the vicinity of Gold Creek.				
	<ul> <li>Work in partnership with volunteer groups to construct and maintain equestrian facilities.</li> </ul>				
The public is educated about park values.	Objective: The visiting public has opportunities to learn about the park's history, natural and cultural values.				
	Specific strategies:				
	<ul> <li>Work with Katzie First Nation to develop educational programs at the Outdoor Learning Centre which focus on park values.</li> </ul>				
	<ul> <li>Upgrade the Tiarella Nature Trail, including improvements to interpretive signage.</li> </ul>				
	• Develop an interpretive trail through the Dominion experimental forest, including interpretive themes on the natural history and the history of forestry in the park area.				
Community groups and partners are actively engaged in volunteer	Objective: Engage community groups and park visitors in volunteer opportunities in the park.				
activities in the park.	Specific strategies:				
	<ul> <li>Partner with volunteer groups to deliver on priority projects in the park.</li> </ul>				
	• Communicate about volunteer opportunities on the BC Parks website.				

Management Context	t Management Objectives and Strategies				
Adjacent land use may	Objective: Management of adjacent lands complements park objectives.				
be affecting park values.	Specific strategies:				
	• Assess adding 100 metres of the littoral foreshore to the protected area system at Alouette, Stave and Pitt lakes to enable management of recreational use in the foreshore.				
	<ul> <li>Assess adding approximately 3,000 hectares of upland Crown land adjacent to the park along the east side of Alouette Lake to manage public access and improve the park viewshed (Figure 4).</li> </ul>				
	<ul> <li>Continue to not allow off-road motorised vehicles, including ATVs, dirt bikes, and snowmobiles, in the park.</li> </ul>				
	<ul> <li>Work with Ministry responsible for recreation and trails to prohibit motorised access to the east side of the park from Blue Mountain. Install park boundary signs on the east side of Alouette Lake to discourage motorised access.</li> </ul>				
	<ul> <li>Work with tenure holders and the Ministry responsible for forestry to minimize visual impacts from logging operations on Blue Mountain.</li> </ul>				
	• Work with BC Hydro to maintain water levels suitable for recreation and flows to enable fish migration.				
	<ul> <li>Work with BC Hydro to ensure that any facility developments on the east side of Alouette Lake, adjacent to their lands, are not inconsistent with their land management objectives.</li> </ul>				
	<ul> <li>Work with UBC Malcolm Knapp Research Forest and the Ministry responsible for recreation and trails to plan for a compatible and integrated multi-purpose trail system.</li> </ul>				
Provide facilities to	Objective: Measures are taken to protect public safety.				
promote the health and safety of park visitors.	<ul> <li>Maintain the small shelter on Panorama Ridge for emergency use.</li> <li>Maintain the cabin on Alouette Lake for emergency use.</li> </ul>				
	Maintain emergency helipads for search and rescue purposes.				
	<ul> <li>Upgrade Mike Lake Road and Bypass Road to reduce dust and improve safety, including improved shoulders for recreational use.</li> </ul>				
	• Provide Bear Aware educational signage and programs at campsites.				
	<ul> <li>Work with BC Hydro to place signage at all reservoir access points to identify potential hazards to the public.</li> </ul>				
	<ul> <li>Provide boat operator education regarding floatplane landings in Alouette Lake.</li> </ul>				
	<ul> <li>Remove log debris at marine sites and provide safe boating anchorages. Work cooperatively with BC Hydro to remove debris from the Alouette Lake reservoir.</li> </ul>				
	<ul> <li>Work with the appropriate authorities to put boating restrictions in place adjacent to swimming areas at Gold Creek, south of the boat</li> </ul>				

Management Context	Management Objectives and Strategies		
Provide facilities to promote the health and safety of park visitors. (cont.)	<ul> <li>launch in the vicinity of the South Beach day use area near the Alouette Dam, and near any BC Hydro water intakes.</li> <li>Prohibit boat landings on public beaches, including South Beach and Campers Beach.</li> </ul>		
Ensure that any commercial and research activities	Objective: To provide appropriate opportunities for commercial and research activities within the park.		
within the park occur in a manner that maintains park values.	• Filming activities will be restricted to the Intensive Recreation Zone and will avoid high use public areas during the summer season, from June through August.		
	<ul> <li>Allow research opportunities that align with management objectives, and discourage research activities that involve invasive techniques and that may cause disturbance to park values.</li> </ul>		
	<ul> <li>Require permit holders to rehabilitate permit areas to a natural state, and whenever possible, encourage re-investment into park improvements and infrastructure.</li> </ul>		
	Objective: Manage non-conforming tenures to meet the conservation and recreation roles of the park.		
	• Maintain existing right-of-ways for the BC Hydro transmission line and other non-conforming infrastructure as parkland to preserve park aesthetics, and protect natural and recreational resources.		

# 3.3 Zoning

BC Parks uses zoning to assist in the planning and management of parks. In general terms, zoning divides an area into logical units to apply consistent management objectives for conservation and recreational values. The zones reflect the intended land use, existing patterns of use, the degree of human use desired, and the level of management and development required. At one end of the spectrum, the Intensive Recreation Zone indicates a portion of a park that is appropriate for high levels of recreation use and facility development. At the opposite end, the Wilderness Conservation Zone indicates an area of a park that receives the highest level of resource protection and evidence of human use is generally low. In addition, there are three additional zones providing a range of conservation and recreation priorities – Nature Recreation Zone, Special Feature Zone and Wilderness Recreation Zone.

Golden Ears Park is divided into four zones, each contributing to the park management vision and complementing adjacent land-uses (Figure 2 and Figure 3). The park zones are described following watershed boundaries where possible.

# **Special Feature Zone**

### Description

This zone encompasses 1% of the park (404 hectares) and includes the riparian areas surrounding Mike Lake, Spirea Bog, the lower reach of Gold Creek (the area within 50 metres of the high water mark extending from Lower Falls to the creek's outlet into Alouette Lake), and sections of the lower Alouette River, downstream from the Alouette Dam (following approximately the 120-metre contour on the west side of the Alouette River). It also includes lower reaches of the Moyer Creek watershed, extending to the fan at Alouette Lake, an area which includes old growth forest. These areas represent sensitive riparian and other aquatic areas that support unique ecosystems and rare species.

#### **Objective and Management Intent**

The Special Feature Zone is an area for the enhanced management of sensitive riparian habitats, significant ecosystems and species in areas with higher levels of recreational use. In this zone, new facilities will be limited to those designed to minimise impacts from recreational use, and provide interpretation (including interpretive trails) and signage. Existing trails and facilities within these areas will continue. Motorised access (including access by motorised boat) is not permitted in this zone. Activities related to non-destructive ecological research, interpretation and restoration are supported.

# Intensive Recreation Zone

#### Description

The Intensive Recreation Zone encompasses the area of the park with vehicle access and includes lands adjacent to the southern part of Alouette Lake where the majority of park development exists and is planned. The western boundary of this zone follows approximately the 200-metre contour to the west of the Golden Ears Parkway up to the northeast side of Gold Creek. The zone encompasses the main day use areas, campgrounds, park maintenance facilities, access roads, frontcountry portions of the trail system, and the southeast shore of Alouette Lake. This zone encompasses 2% of the park (a total of 1,174 hectares).

# **Objective and Management Intent**

The objective of the Intensive Recreation Zone is to provide for a variety of high-use, easily accessible, facility-oriented outdoor recreation opportunities. This zoning permits the development of park infrastructure including vehicle-accessed campgrounds, day-use areas, dog off-leash areas, trails, boat launches, maintenance buildings, interpretive centres, playgrounds and access roads.

# **Nature Recreation Zone**

### Description

This zone encompasses 28% of the park (17,666 hectares), which includes the watersheds of the tributaries along the shorelines of Alouette, Pitt, and Stave lakes (including the watersheds of Osprey Creek, Raven Creek, the North Alouette River, Moyer Creek, Glacier Creek, the lower watershed of Gold Creek, and the shoreline around Clearwater Bay on Stave Lake). This zone encompasses the more accessible backcountry of the park, including backcountry trails, campsites and marine sites.

# **Objective and Management Intent**

The Nature Recreation Zone provides accessible outdoor recreation activities in a largely undisturbed natural environment. Facilities are designed to provide recreational amenities with a focus on minimising environmental impacts associated with recreational use. Facilities include hiking, equestrian and mountain biking trails, walk-in/boat-in campsites and safety shelters.

#### Wilderness Recreation Zone

#### Description

This zone is comprised of the watersheds in the northern two-thirds of the park, including the upper watershed of Gold Creek, and the watersheds of Tingle Creek, the upper Stave River, Stoney Creek, Gurney Creek, and Tingle and Thomas lakes. The northern section of this zone includes the headwaters of Corbould Creek, Vickers Creek and Fish Hatchery Creek (the Mystery Lakes area) and the alpine lakes in the vicinity of Pukulkul Mountain. This zone encompasses a total area of 43,295 hectares (69% of the park).

# **Objective and Management Intent**

The Wilderness Recreation Zone protects a remote, undisturbed natural landscape while providing backcountry recreation opportunities dependent on a pristine environment. Key management objectives are the protection of the area's key ecosystem values including headwater lakes and ungulate winter range, while providing recreational opportunities dependent on a wilderness setting. Aircraft use is permitted, however it is proposed that an amendment to Schedule A of the *Park, Conservancy and Recreation Area Regulation* be made requiring aircraft users to obtain prior authorisation from a park officer or a valid park use permit to access the northern section of this zone (Figure 2).

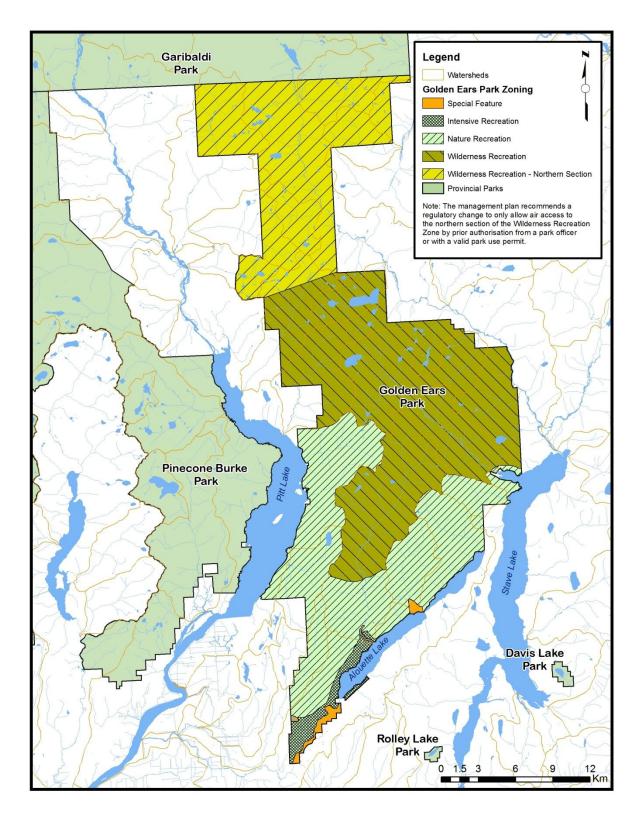


Figure 2. Golden Ears Park Zoning—Overview Map.

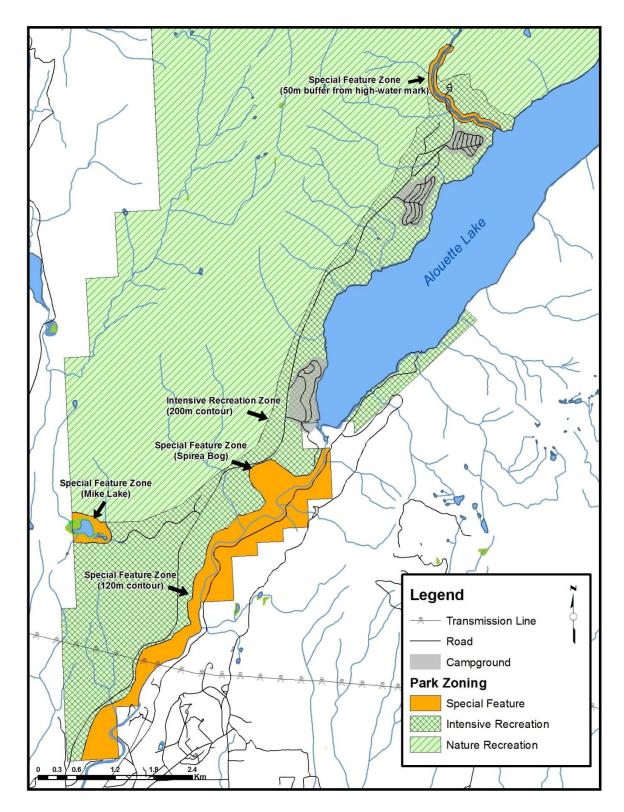


Figure 3. Golden Ears Park Zoning - Map of Zoning at the Southern End of the Park.

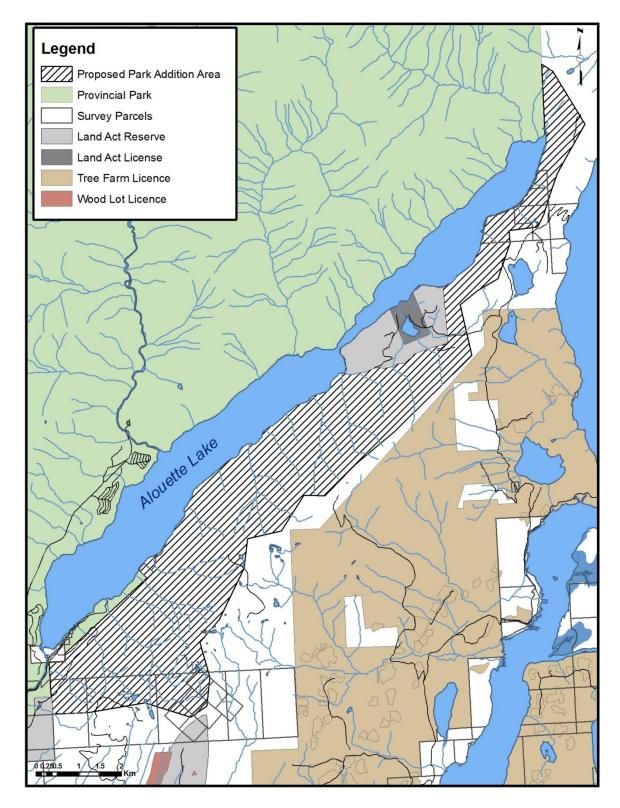


Figure 4. Map of the Proposed Park Addition on the Eastern Side of Alouette Lake.

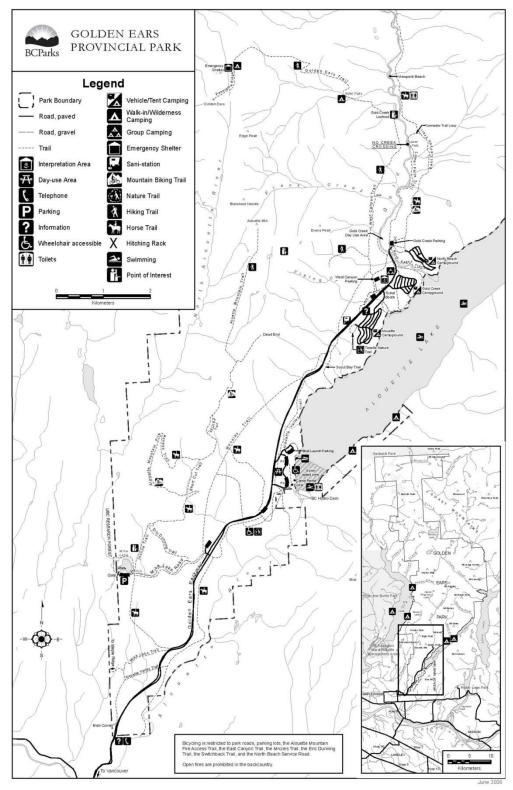


Figure 5. Map of Key Recreational Features in the Park.

# 4.0 Implementation Plan

# 4.1 Implementation Plan

BC Parks will seek project-specific funding, and solicit partners and volunteers to assist with the implementation of the management strategies described within this management plan. Specific projects within Golden Ears Park will be evaluated for priority in relation to the overall protected areas system. BC Parks will focus efforts first on upgrading existing facilities, in particular trails, prior to developing new facilities.

Many of the initiatives contemplated as part of this management plan are not funded as part of core BC Parks activities so seeking the involvement of outside partners and volunteer groups will be a key aspect of management plan implementation.

# 4.2 High Priority Strategies for Implementation

The following strategies have been identified as high priorities for implementation:

- Conduct an assessment of trail conditions and develop a strategy for trail maintenance and improvements.
- Work in partnership with volunteer groups to monitor and maintain backcountry trails and facilities.
- Conduct surveys and delineate areas of Mountain Goat habitat in partnership with the Ministry responsible for the *Wildlife Act*.
- Relocate and/or restrict recreational facilities and uses (e.g., trails, aircraft landings) if there is evidence they may be impacting Mountain Goat.
- Use the BC Parks' Invasive Plant Threat Analysis approach to develop an action plan to address invasive species.
- Recommend an addition of 100 metres of the littoral foreshore to the boundary of the park at Alouette, Stave and Pitt lakes to enable management of recreational use in the foreshore. Any additions to the littoral zone will be subject to BC Hydro's storage rights for the Alouette and Stave reservoirs.
- Recommend a park addition of approximately 3,000 hectares to secure upland areas adjacent to the park along the east side of Alouette Lake to manage public access and improve the park viewshed.
- Conduct monitoring to determine the status and spawning habitats of the native fish populations in the park, including coastal Cutthroat Trout and Bull Trout.
- Work with First Nations to provide educational information on First Nations history, values and traditional uses within the park.
- Re-install a second dock at the South Beach boat launch.

- Pursue an agreement with BC Hydro to provide for an equestrian parking lot on BC Hydro land adjacent to the South Beach day use area.
- Develop a trail, including a footbridge across Gold Creek, to connect the East Canyon Trail to Alder Flats and the Golden Ears Trail.
- Work with the park facility operator and key stakeholders to develop procedures to improve year-round recreational access, including:
  - Winter access to park trailheads; and
  - Extended gate hours to facilitate backcountry day trips.
- Repair or replace existing equestrian facilities including hitching posts and corrals. Re-install the horse camp structures at Horsemen's Beach on the East Canyon Trail.
- Designate the Main Corral parking area for equestrian use only and install horse corrals. Encourage other users to park in the adjacent parking area on the east side of the park access road.
- Upgrade the Tiarella Nature Trail, including improvements to interpretive signage.
- Upgrade Mike Lake Road and Bypass Road to reduce dust and improve safety, including improved shoulders for recreational use.
- Provide boat operator education regarding floatplane landings on Alouette Lake.

# 5.0 References

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Katzie First Nation (2011). *Park Management Plan for Foreshore and Riparian Zones of Alouette Lake in Golden Ears Provincial Park*. Report prepared for BC Parks. 23 pp.

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# Appendix 1: Appropriate Uses Table

The following table lists existing and potential future uses in Golden Ears Park. This is not an exhaustive list of uses that may be considered in this protected area.

The table is provided to summarize the uses which the management planning process has confirmed are <u>not</u> appropriate in Golden Ears Park. The table also gives a general indication of the management direction for other uses. The table must be reviewed in conjunction with the other sections of the management plan, including the role descriptions, vision, objectives and strategies.

Legend					
Ν	Not an appropriate use in this zone	<ul> <li>It has been confirmed during the management planning process that this use is not appropriate in this zone.</li> <li>This may be an existing use which the management planning process has determined is no longer an appropriate use in this zone. The management plan details strategies for addressing this inappropriate use (e.g., phasing out, closing).</li> </ul>			
Y	<u>May be</u> an appropriate use in this zone	<ul> <li>This indicates that some degree or scale of this use may be appropriate.</li> <li>For existing uses, the management plan will provide guidance on the appropriate level or scale of this use (e.g., direction to reduce, restrict or increase the current level of this activity) and may address specific restrictions or enhancements (e.g., capacity, appropriate sites, designated trails, purposes, party size, time of year, etc.).</li> <li>For new or expanded uses, this does not constitute approval. This indicates that the use <u>may be considered</u> for further evaluation and possible approval (e.g., park use permit adjudication, completion of a review as part of the BC Parks' Impact Assessment Process). In some cases the appropriateness may not be confirmed until further assessments are completed.</li> </ul>			
N/A	Not an applicable use in this zone	• This is applied where it is not feasible for the use to take place in this zone (e.g., mooring buoys in a terrestrial zone).			

Activities	Special Feature	Intensive Recreation	Nature Recreation	Wilderness Recreation
Camping	N	Y	Y <sup>1</sup>	Y
Boating (motorised)	N	Y	Y	N
Boating (non-motorised)	Y	Y	Y	Y
Mechanized Off-Road Activity (e.g., mountain biking)	Ν	Y	Y	N
Motorised Off-Road Activity (e.g., quads, 4x4s, dirt bikes, snowmobiles, snowcats)	Ν	N	N	N
Aircraft Access	Ν	N	Y	Y <sup>2</sup>
Skiing	Ν	Y	Y	Y
Hang Gliding/Para Gliding Launching	N	N	Y	Y
Horse Use and Pack Animal Use	Y <sup>3</sup>	Y	Y	Y
Rock Climbing	N	Y	Y	Y
Filming	N	Y	N	N
Hunting	N	N	N	N
Fishing—Recreational	Y <sup>4,5</sup>	Y	Y	Y
Trapping	N	N	N	N
Fish Stocking and Enhancement	Y <sup>6</sup>	Y	N	N
Habitat Restoration	Y	Y	Y	N

 <sup>&</sup>lt;sup>1</sup> At designated campsites only.
 <sup>2</sup> Recommend a regulatory change so that prior authorisation from a park officer or a valid park use permit is required for aircraft access in the northern section of the Wilderness Recreation Zone.

<sup>&</sup>lt;sup>3</sup> On existing trails only.

<sup>&</sup>lt;sup>4</sup> The Alouette River is closed all year to fishing above signs near the Alouette River Corrections Unit, and above 216<sup>th</sup> Street (including the North Alouette River) between May 1 and June 30 to protect spawning salmon runs. <sup>5</sup> A permanent fishing closure may be considered at Mike Lake to protect Coastal Cutthroat Trout.

<sup>&</sup>lt;sup>6</sup> Only the stocking of sterile fish is permitted at Mike Lake.

Facilities/Infrastructure	Special Feature	Intensive Recreation	Nature Recreation	Wilderness Recreation
Campsites (vehicle accessed)	Ν	Y	Ν	N
Campsites (walk-in)	N	Y	Y	Y
Campsites (boat accessed)	N	Y	Y	Y
Lodges	N	N	N	N
Cabins/Yurts/Huts	N	Y	Y <sup>7</sup>	N
Information and Interpretation Buildings/Centres	N	Y	N	N
Administrative Buildings and Compounds	N	Y	N	N
Picnic Areas (vehicle accessed and serviced)	N	Y	N	N
Boat Launches	N	Y	N	N
Boat Docks/Wharves	N	Y	N	N
Mooring Buoys	N	Y	Y	N
Ski Facilities (cross-country)	N	Y	N	N
Interpretive Signage	Y	Y	Y	Y
Roads	N	Y	N	N
Parking Lots	N	Y	N	N
Trails	Y	Y	Y	Y
Utility Corridors	Y <sup>8</sup>	Y	N	N
Water Control Structures	Ν	N	N	N

 <sup>&</sup>lt;sup>7</sup> Limited to emergency shelters.
 <sup>8</sup> Limited to the existing transmission line corridor.

# Appendix 2: List of Golden Ears Park Trails

#### Interpretive Trails:

- 1. **Spirea Nature Trail**: Staged from the Spirea Nature Trail parking lot, this is a loop trail designed to accommodate people with a variety of physical abilities. The purpose of the trail and boardwalks is to interpret coastal bog flora and fauna and the ecology and history of the area. The main trail is 540 metres; there is also a shorter loop trail of 350 metres.
- 2. **Tiarella Nature Trail**: Accessed from the Alouette Campground, the purpose of this trail is to provide a short, pleasant walk through coastal forest.
- 3. **Trail of the Fallen Giants**: The purpose of the trail is to interpret the forest ecology and the logging history of the area. The trail is hiking only and takes approximately 15 minutes.

#### Trails:

- 1. **Mike Lake Trail**: The purpose of this trail is to provide a link from the Main Corral at the park entrance to the Alouette Valley Trail, Mike Lake, and trails to Alouette Mountain. This trail is designed for both horses and hikers, with an elevation change of 100 metres and a distance of 4.2 kilometres. Suggested hiking time is 2 hours.
- 2. **Lakeside Trail**: This 1.2 kilometre trail loops around Mike Lake and is a popular route for hikers and joggers. A section of this trail travels outside the park and through the UBC Research Forest.
- 3. Incline Trail: The purpose of this steep trail is to provide a direct route from Mike Lake to the Fire Access Trail and to access remnants of the logging era. The trail follows the incline that was once used by loggers as a route to skyline logs down to Mike Lake from the railhead above; an abandoned steam donkey sled can be seen after crossing Mike Creek. The trail has an elevation gain of 150 metres over 1.2 kilometres and is a horse and hiking trail.
- 4. **Eric Dunning Trail and Switch Back Trail**: The purpose of these two trails is to provide a short cut for both hikers and mountain bikers from the Mike Lake Road to the Alouette Mountain Fire Access Trail. The trail is approximately 1.7 kilometres.
- 5. Alouette Mountain Fire Access Trail: This trail follows from Incline Trail through subalpine forest . The purpose of this trail is to provide access to a granite knoll on Alouette Mountain and an area that reflects the parks' natural history an area of forest disturb by a blow-down caused by Typhoon Freda in 1962. This multipurpose trail is for horses, hikers, and bikers, and has a 550 metres elevation change over 8 kilometres.
- 6. Alouette Mountain Hiking Trail: This hiking-only trail begins off the Alouette Mountain Fire Access Trail. Its purpose is to provide access to the summit of Alouette Mountain. This trail also has many highlights including the virgin stands of mountain hemlock and yellow cedar and the spectacular panoramic view from Alouette Mountain. The trail is a

strenuous hike with an elevation change of 600 metres over 4.2 kilometres. Experience and proper equipment is advised.

- 7. Alouette Valley Trail: The purpose of this trail is to connect the Mike Lake Trail to the Menzies Trail and to provide access for horseback riders to the eastern portions of the park. This trail winds for 9.7 kilometres along the eastern side of the parkway with very little elevation change. Suggested hiking time is 3.5 hours.
- 8. **Menzies Trail**: The purpose of this 9.7 kilometre multipurpose trail is to link trails near Park Headquarters to the trails accessed by the Gold Creek Parking Lot. Suggested hiking time is 4.5 hours.
- 9. **Lookout and Loop Trails**: The purpose of these trails is to provide a short pleasant hike to a lookout and to return via another trail. Beginning near the Spirea Nature Trail, the Lookout Trail is a hiking only trail and the Loop Trail is open to horses and hikers. The total length is 2.5 kilometres with an elevation change of 75 metres. Parking is available at the Spirea parking lot.
- 10. **Viewpoint Trail**: The purpose of this hiking trail from the West Canyon Parking Lot is to provide a short, easy hike with access to two spectacular viewpoints along a total length of 2 kilometres. Lake Viewpoint and Viking Creek Viewpoint both offer good views, and in wetter seasons a picturesque waterfall tumbles down a cliff just beyond Lake Viewpoint.
- 11. West Canyon Trail (Golden Ears Trail): The purpose of this 5.7 kilometres hiking only trail is to provide access to Alder Flats where the Golden Ears Trail continues to the summit of the north peak of Golden Ears. From the West Canyon Parking Lot this trail follows an old logging grade for 3.1 kilometres and then turns uphill. At this point a short trail to Lower Falls branches from the trail.
- 12. **Golden Ears Trail**: This trail offers a strenuous and difficult hike to the summit of Golden Ears' north peak. Beginning at Alder Flats, the trail switchbacks on an old logging road and then heads steeply uphill to East Ridge and then Panorama Ridge, where there are impressive views of the Lower Mainland. The emergency shelter is located at 10.7 kilometres. Total length of the trail from the parking lot is 12 kilometres with a change in elevation of 1,500 metres.
- 13. Lower Falls Trail: The purpose of this popular walking trail is to access the Lower Falls and some of the best scenery in the park. Starting at the Gold Creek Parking Lot and following the eastern bank of Gold Creek, a beach area halfway to the Falls is a good spot for a picnic or a sunbathe. The total length of this trail is 2.7 kilometres.
- 14. **East Canyon Trail**: The purpose of this 4.5 kilometres trail is to provide access to Gold Creek for horses, hikers and cyclists. The trail leads to spectacular scenery, particularly at Viewpoint Beach where Golden Ears and Edge Peak can be viewed to the west. The trail narrows and continues parallel to Gold Creek for another 7 kilometres.