

**SHORELINE
MANAGEMENT
GUIDELINES**

Jimsmith Lake



Prepared For:
**East Kootenay Integrated Lake
Management Partnership**

Prepared By:
**ECOSCAPE ENVIRONMENTAL
CONSULTANTS LTD.**

**April, 2011
File No.: 10-682**

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East Kootenay Integrated Lake Management Partnership

Jimsmith Lake

Prepared For:

EAST KOOTENAY INTEGRATED
LAKE MANAGEMENT PARTNERSHIP

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April, 2011

File No. 10-682

ACKNOWLEDGEMENTS

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Jon Bisset, Canadian Columbia River Inter-Tribal Fishery Commission

Peter Holmes, Ministry of Natural Resource Operations

GPS Video

Brad Mason, Fisheries and Oceans Canada

Funding and or in kind donations for this Project were provided by the following different agencies or parties:

East Kootenay Integrated Lake Management Partnership

Columbia Basin Trust Environmental Initiatives Program

Jimsmith Lake Community Association

Canadian Columbia River Inter-Tribal Fishery Commission

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Recommended Citation:

Schleppe, J. and A. Patterson. 2011. Jimsmith Lake Shoreline Management Guidelines. Ecoscape Environmental Consultants Ltd. Project File: 10-682. Prepared for: East Kootenay Integrated Lake Management Partnership.

PREFACE

This report has been prepared based upon the belief that it is possible manage our watersheds and their natural surroundings in a sustainable manner. The intent of this document is to provide Shoreline Management Guidelines for Jimsmith Lake. The Guidelines within this document have been prepared based upon technical results of shoreline studies completed on Jimsmith Lake¹. These documents provide important background information concerning fish and wildlife habitats that occur around the lake and form the basis for development of the management guidelines in this document. The Guidelines are focused around the protection, conservation and restoration of important fish and wildlife values and will help focus where new development could be located on the lake while sustaining natural public assets and maintaining the economic viability of the area.

It is a complex relationship between development pressure, the natural environment, and social, economic and cultural values. To balance these various community values, a solid understanding of aquatic and riparian resource values, land use interests, concerns of local residents and the long-term planning objectives is required. Thus, by collecting detailed, spatially accurate information of existing shoreline habitats and their condition, more informed land use planning decisions can be made that better balance the different pressures that exist. Foreshore Inventory and Mapping (FIM) is a standard shoreline mapping methodology that was employed to map the shorelines of Jimsmith Lake. This methodology has been standardized for mapping the shorelines of lakes in the province and provides the basis for integration of environmental information into land use policy documents.

Guidelines that have been prepared in this document are based upon the FIM methodology and data collected during surveys and followed this general process:

1. Shoreline Inventories following the FIM protocol (Appendix A) and additional fisheries and wildlife inventories to identify other sensitive features of concern. Inventories were conducted using a variety of methods and data was utilized from numerous different sources;
2. An Aquatic Habitat Index (AHI) was generated using the FIM data to determine the relative habitat value of the shoreline. This index follows similar methods that were developed for Moyie and Monroe Lakes and is similar to other ongoing assessments along Shuswap Lake, Tie and Rosen Lakes, and Columbia Lake.
3. Shoreline Management Guidelines have been prepared for the shorelines surveyed to facilitate making informed land use decisions for our watersheds. The Shoreline Management Guidelines are intended to provide background information to stakeholders, proponents, and governmental agencies when land use changes or activities are proposed that could alter the shoreline thereby affecting fish or wildlife habitat.

¹ Schleppe, J. and A. Patterson. 2011. Jimsmith Lake Foreshore Inventory and Mapping and Aquatic Habitat Index. Ecoscape Environmental Consultants Ltd. Project File: 10-682. Prepared for: East Kootenay Integrated Lake Management Partnership.

This approach provides a science-based assessment of areas of highest natural value requiring the highest level of on-going protection. There are four colour zones from red, which calls for the highest level of shoreline protection and are identified as conservation areas, to grey zones, where there is already significant impact from development and potential for redevelopment and restoration. The risks of selected development activities have been determined for each colour zone, identifying activities, which require additional review or consideration. A flow chart has been developed based on activity risk, which outlines the review process at a broad scale.

This report only provides direction relating to fish and wildlife habitat values, and as such, does not consider other development factors (such as erosion hazards, drinking water quality or navigation considerations). Although some mention is made to potential permits required, the guidelines do not fully outline the regulatory agency permit planning process.

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1.0 INTRODUCTION

Shoreline Management Guidelines (Guidelines) are intended to streamline land use decision making processes between different agencies and stakeholders. Guidelines have been prepared by the East Kootenay Integrated Lake Management Partnership (EKILMP) for Windermere Lake, and this document was used as a template. Original authorship credit is given here for any portions of this document that are similar to or amended from the original document. This document will not be referenced at every instance to promote readability and similarities may exist between these documents because of the template developed for Windermere Lake. The original authors of the text should be credited for completion of this document.

The EKILMP partnership consists of a variety of different partners, including local, provincial, and federal governments, nonprofit organizations, and local first nations. The EKILMP was formed in 2006 with the purpose of creating better policies for management of key lakes in the Kootenay region. The intent of the partnership is to better balance the environmental and developmental needs of residents.

2.0 MANAGEMENT GUIDELINES OVERVIEW

The Guidelines utilize a risk based approach to shoreline management. This approach determines the risk of a proposed activity in each of the identified Vulnerability Zones. Vulnerability Zones relate to the environmental sensitivity of the shoreline, as determined by the Aquatic Habitat Index (AHI). Vulnerability Zones have been color coded to help more easily understand the risk matrix. The following is a “How To” Guide to Development Planning along the Jimsmith Lake Shoreline:

1. Determine the Shoreline Vulnerability Color Zone your application is situated in using the Jimsmith Lake Figure Binder. See Section 8.1.1 below.
2. Determine what the Risk is of your proposed activity using the risk matrix (see Section 8.1.2 below. If proposed activities have not been identified within the table, assume the activity is High Risk and contact FrontCounter BC or the Regional District of East Kootenay (RDEK) for further advice and information. If the identified activity is considered High Risk, determine if the activity can be relocated to a different colour zone or select a lower risk activity.
 - a. If a Species at Risk is present or identified by a Qualified Environmental Professional (QEP), the risk of proposed activities is greater. If identified, the Modified Column for Species at Risk should be used.



3. Use the flow chart contained in this document to determine the application review needs based upon the risk of the proposed activity.

2.1 Step 1 - Shoreline Vulnerability Color Zones

The Shoreline Vulnerability Color Zones are best viewed graphically, as they relate to specific shoreline areas. The shoreline Vulnerability Color zones are based upon fisheries and wildlife information collected during field surveys and the AHI that was prepared for the shorelines. The Jimsmith Lake zones are provided in Figure Binder 1.



The following provides a brief summary of the Vulnerability Color Zones.

Red Shoreline

Defined by: Very High Value Habitats identified by the AHI.

Background:

These areas have been identified as essential for the long term maintenance of fish and/or wildlife values through the AHI analysis process. This zone includes most creek mouths, wetland areas, and zones essential for fish and/or wildlife populations around the lake. Proponents should seriously consider moving high risk activities to other areas if possible, or pursuing activities that have lower risks associated with them.

EKILMP recommends that these areas be designated for conservation use, and that no development that can impact these sensitive communities occur within them. Low impact water access recreation and traditional First Nation uses are permissible in these areas, but permanent structures or alteration of existing habitats is not considered to be acceptable. Habitat restoration may be appropriate in these areas where warranted. Invasive aquatic plant removal is acceptable, provided there is an approved aquatic plant removal program including trained persons. Please contact a plant specialist if uncertain of a plant species.

Orange Shoreline

Defined by: High Value Habitats identified by the AHI.

Background:

These shoreline segments have been identified as High Value Habitat Areas for fish and/or wildlife. These are made up of areas that are relatively natural; possibly have high value spawning habitats and/or other features that could be impacted by proposed land uses or activities. These areas are sensitive to development, continue to provide important habitat functions, but may be at risk from adjacent development pressures. Restoration opportunities potentially exist in these areas. Proponents should consider moving high risk activities to other areas if possible, or pursuing activities that have lower risks associated with them.



Yellow Shoreline

Defined by: Moderate Value Habitats identified by the AHI.

Background:

These areas have generally experienced more intensive development disturbance and pressures. Generally, these areas do not contain critical habitat features required by fish and wildlife to maintain viable populations. However, these areas still maintain important general living habitats that are important to fish and wildlife that and they should be considered when changes to land uses are proposed.

Development is more appropriate on these shorelines, and should incorporate protection of habitat features that remain. Intensive development below the high water mark and/or within riparian areas could have unacceptable environmental impacts without proper planning. Restoration may be an option in some areas that have experienced some developments. Development may proceed for low risk activities provided a Best Management Practice (BMP) or Regional Operating Statement (ROS) is followed. High risk activities without a BMP or ROS will require a report from a QEP.

Grey Shoreline

Defined by: Low and Very Low Value Habitats identified by the AHI.

Background:

These are shorelines identified by the AHI analysis have a lower ecological value. However, they still may contain valuable habitats requiring some protection, such as in-lake wetlands, or gravel/cobble substrate areas.

Residential development has been concentrated in these areas and has resulted in disturbances to the natural fish and wildlife habitat. In keeping with the objective of concentrating development in areas that are already disturbed or of low value, new developments may be considered in these areas. Redevelopment will also be considered. New developments or redevelopment proposals shall incorporate fish and wildlife habitat restoration or improvement features where feasible and practicable. For example, a retaining wall redevelopment may be moved back from the HWM and/or incorporate re-vegetation or other fish and wildlife features in the design.

2.2 Step 2 - Activity Risk Matrix and Analysis

Shoreline activities have been assigned risk ratings based on the potential level of risk they may have on fish and wildlife habitat values. Risks have been determined based upon the habitat values present and typical requirement to complete the proposed activity. The table below provides the risks of various activities in each of the shoreline Vulnerability Zones identified. Risks have been determined as Not Acceptable (NA), High (H), or Low (L). To account for the limited survey information, a Species at Risk modifier column has been provided and should be used in cases where a Species at Risk has been identified in the project area.



Activity	Shore Zone Colour and Activity Risk				Modifier
	Red	Orange	Yellow	Grey	Zone has Species at Risk
Over water piled structure (i.e. building, house, etc.)	NA	NA	NA	NA	NA
Boat house (below HWM) ³	NA	NA	NA	NA	NA
Dredging (new proposals)	NA	NA	NA	NA	NA
Beach creation above HWM	NA	NA	H	H	H
Beach creation below HWM	NA	NA	H	H	H
Aquatic vegetation removal	NA	NA	H	H	H
Upland vegetation removal	NA	NA	H	H	H
Marina ⁴	NA	H	H	H	H
Breakwater	NA	H	H	H	H
Boat launch upgrade	NA	H	H	H	H
New boat launch	NA	H	H	H	H
Infill	NA	H	H	H	H
Groynes	NA	H	H	H	H
Fuel facility ⁵	NA	H	H	H	H
Boat house (above HWM with vegetation removal) ¹	NA	H	H	H	H
Waterline trenched	NA	H	H	L	H
Erosion protection hard-joint planted	NA	H	H	L	H
Erosion protection vertical wall or retaining wall ⁶	NA	H	H	L	H
Invasive weed removal	H	H	H	L	H
Boat house (above HWM without vegetation removal) ¹	NA	H	L	L	H
Permanent rail launch system	NA	H	L	L	H
Removable rail launch system	NA	H	L	L	H
Dock ¹	NA	H	L	L	H
Erosion protection (soft-bioengineered)	NA	H	L	L	H
Elevated boardwalk below HWM	NA	H	L	L	H
Mooring buoy	NA	H	L	L	H
Maintenance dredging (previously approved)	NA	H	L	L	H
Boat lift - temporary	NA	H	L	L	H
Geothermal loops - open ⁷	NA	H	L	L	L
Geothermal loops - closed	NA	H	L	L	L
Habitat restoration ⁸	H	H	L	L	H
Public beach maintenance	NA	L	L	L	H
Waterline drilled	NA	L	L	L	L

³ These Guidelines are to be used in the initial development planning stage and do not cover all legislative requirements. Docks and boathouses are an example of an activity that could require additional approval process through Transportation Canada or Ministry of Agriculture and Lands.

² Marinas or marina expansions in orange zones may not be acceptable depending on the key habitat area attributes – upland or aquatic.

⁵ Fuel facilities are inherently high risk, and if approved will be subject to all other regulations.

⁶ Retaining wall redevelopment should be designed to restore fish and wildlife values where feasible and practical.

⁷ Geothermal loops open (water) versus closed (glycol) and associated risk must also be assessed and ranked for physical habitat and water quality aspects.

⁸ Habitat restoration proposals are listed as high risk in red and orange zones because individual objectives and proposals must be reviewed.



In cases where multiple activities with differing risks are proposed, the combined risk may increase. In these cases, proponents should default to the highest risk identified and retain a QEP to help determine if the overall risk has increased. If your activity is not listed, contact FrontCounter BC for advice. The Activity Risk Table also distinguishes between activities above and below the HWM. Identification of the HWM (as opposed to the 'natural lake boundary') is the standard practice used by DFO when considering impacts to fish and wildlife values because the natural lake boundary often contains emergent vegetation communities that are important to fish and wildlife.

The following sections provide background, descriptions, and examples of the Activity Risk Ratings. The risk ratings identify the potential risk that activities pose to fish and wildlife and their associated habitats. Activities identified as Not Acceptable (NA) or High (H) have the greatest risk potential, whereas activities identified as Low (L) have a reduced potential to impact fish and wildlife populations. This process recognizes that there is a greater possibility that High Risk activities may not be approved by regulators due to the potential impacts of the activity. The process also identifies that important habitats do exist in degraded and developed areas and that minimal standards are required to protect fish and wildlife habitat in the Grey zone areas.

Not Acceptable Activities

Several activities have been rated as Not Acceptable and they generally occur in Red or Orange zones or are activities that have a high potential to impact fish or wildlife populations even in lower value habitat areas. These activities listed have potential to negatively impact fish and wildlife habitats and it is extremely difficult or impossible to mitigate or compensate for the activities. If the applicant wishes to proceed with an activity rated as Not Acceptable, a Qualified Environmental Professional (QEP) should be retained to determine if there is a HADD and/or other environmental impacts which can be mitigated through design and relocation. The application will be reviewed by the applicable agencies. As identified in the Activity Risk Table, certain activities are rated Not Acceptable for all shore colour zones and should be avoided if at all possible.

High Risk Activities

Proposals within the High Risk category are known to have significant challenges related to providing adequate mitigation or compensation to address the loss of fish and/or wildlife habitat values. Acceptable mitigation measures would likely be very costly to implement. In addition, there is a high likelihood that a request for a Harmful Alteration, Disruption or Disturbance of Fish habitat (HADD) authorization under the Fisheries Act would be triggered. Applicants are thus encouraged to avoid activities with a High Risk, consider activities that are a lower risk or relocate the activity to an area where the environmental sensitivity is less. If the applicant wishes to proceed with a High Risk activity, a QEP should be retained to determine if there is a HADD and/or other environmental impacts which can be mitigated through design and relocation. The



application will be reviewed by the applicable agencies. As identified in the Activity Risk Table, certain activities are rated High Risk for all shore colour zones and should be avoided if at all possible.

Low Risk Activities

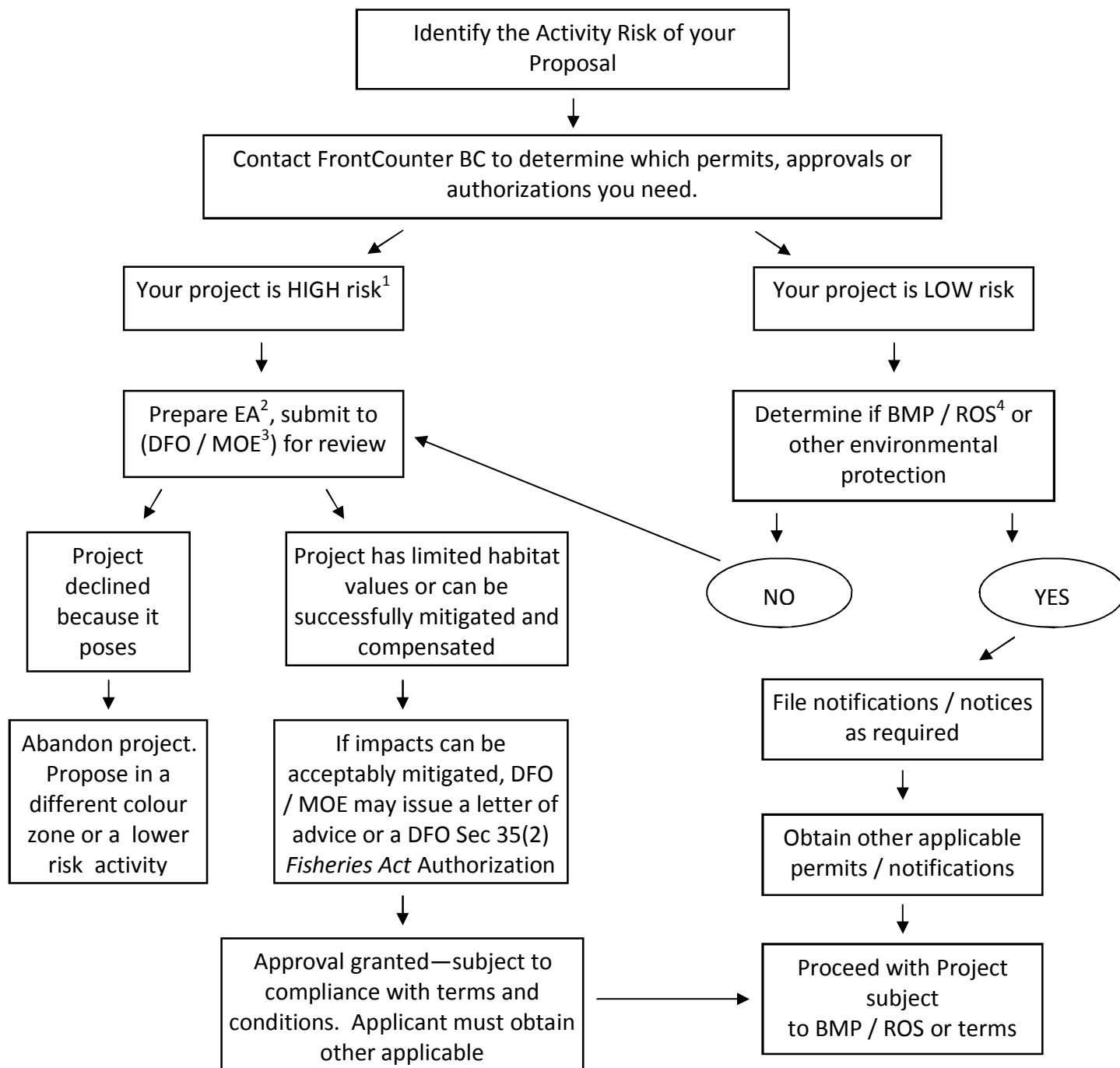
With appropriate design and planning, Low Risk activities could be incorporated along the foreshore with minimal impacts on fish and wildlife habitat values. These activities are to follow BMP and/or ROS, where available. Where BMP/ROS are not available, or a deviation to the BMP/ROS is proposed, a QEP is to be hired to determine if there is a HADD and design the project to minimize environmental impacts. The application will be reviewed by the applicable agencies. Examples of activities which have Low Risk along most/all of the shoreline are: maintenance dredging (previously approved) and erosion protection (soft-bioengineered).

2.3 Step 3 - Decision Process Flow Chart

The flow chart below provides an outline for the decision-making process for the High and Low Risk activities. The chart is a tool to help depict the Guideline requirements outlined in the previous sections. Note that this process provides Guidelines on only the initial planning stages of development. There are other legal requirements that are not covered through this process (such as approvals/notifications through Transport Canada, *BC Water Act*, *BC Lands Act*), which are the responsibility of the applicant. Additional potential legal requirement listings are provided in Appendix A. If these Guidelines are followed, the intent is that the subsequent permitting process(es) should be more streamlined for the applicant.



**Flow Chart: Decision-making process for High and Low Risk Activities for
Fish and/or Wildlife Habitat authorizations**



¹ Activities within the High Risk category raise significant concerns. These activities have significant challenges related to providing adequate mitigation or compensation to address the loss of fish and/or wildlife habitat values and could be costly to implement acceptable mitigation measures. With High Risk activities, there is a high likelihood that a request for a Harmful Alteration Disruption or Destruction of fish habitat (HADD) authorization under Sec 35(2) of the *Fisheries Act* would be triggered. Proponents are encouraged to avoid activities with a High risk, revise activities to a lower risk option, or relocate the activity to a less sensitive colour zone.

² Environmental Assessment

³ DFO- Fisheries and Oceans Canada; MOE- Ministry of Environment

⁴ BMP – Best Management Practice; ROS – Fisheries and Oceans Canada Regional Operating Statement



3.0 MITIGATION AND COMPENSATION CONSIDERATIONS

In order to assess impacts of a proposed project, it may be necessary to retain a QEP to assess habitat values and sensitivities in the area. Information contained in this report will help with this task; however, further studies will likely be necessary to address site specific issues and because of the limitations of information currently available. The DFO principle of “no net loss” within the Policy for the Management of Fish Habitat 1986 applies to all proposals where there is the potential for a HADD under Section 35(2) of the federal *Fisheries Act*. This involves following a sequence of mitigation alternatives. Mitigation is a process for achieving conservation through the application of a hierarchical progression of alternatives, which include: (1) avoidance of impacts; (2) minimization of unavoidable impacts; and (3) compensation for residual impacts that cannot be minimized. These alternatives are described as follows:

3.1 Avoidance of Impacts

The first step, avoidance, involves the prevention of impacts, either by choosing an alternate project, alternate design, or alternate site for development. It is the first and best choice of mitigation alternatives. Because it involves prevention, the decision to avoid a high value area or to redesign a project so that it does not affect a high value area must be taken very early in the planning process. It may be the most efficient, cost effective way of conserving important habitats because it does not involve minimization, compensation or monitoring costs. Avoidance may include a decision to not proceed with the project.

3.2 Minimization of Unavoidable Impacts

Minimization should only be considered once the decision has been made that a project must proceed, that there are no reasonable alternatives to the project, and that there are no reasonable alternatives to locating the project within key/high value habitat. Minimization involves the reduction of adverse effects of development on the functions and values of the habitat at all project stages (including planning, design, implementation and monitoring), to the smallest practicable degree. Considering any planning efforts, DFO must deem a HADD to be acceptable before work can commence.

3.3 Compensation

Compensation is the last resort in the mitigation process, an indication of failure in the two earlier steps. It should only be considered for residual effects that were impossible to minimize. Compensation refers to a variety of alternatives that attempt to “make up for” the unavoidable loss of or damage to habitat functions and values. Habitat compensation may be an option for achieving “no net loss” when residual impacts of projects on habitat



productive capacity are deemed harmful after relocation, redesign or mitigation options have been implemented.

After reviewing the project proposal and the potential impacts to fish habitat, DFO may determine that the impacts are not acceptable if the habitat to be affected is critical habitat or compensation is not feasible. In addition, compensation for deposit of a deleterious substance into water frequented by fish is not acceptable. Habitat compensation involves replacing the loss of fish habitat with newly created habitat or improving the productive capacity of some other natural habitat. Depending on the nature and scope of the compensatory works, habitat compensation may require, but not be limited to, several years of post-construction monitoring and remediation or redevelopment of the compensation works in the event the habitat is not meeting the compensation objectives. There is no guarantee that projects in high value fish habitats that result in HADD will be authorized under Section 35(2) if application is submitted.



JIMSMITH LAKE

FORESHORE INVENTORY AND MAPPING

FIGURE BINDER





Jim Smith Lake

Foreshore Inventory and Mapping

Legend

999 Foreshore Inventory and Mapping (FIM) Segment Number
○ Segment Break
— Foreshore Inventory and Mapping (FIM) Segment
— Streams
— Electoral Area / Municipal Boundary
— Cadastre
— Contours

Aquatic Habitat Index Ranking

- Very High
- High
- Moderate
- Low
- Very Low

The inset map shows the Kootenay region, including the cities of Kimberley, Cranbrook, and Fort Steele. It highlights the location of Jim Smith Lake and the surrounding areas, including the Kootenay River and the Kootenay National Park. The map also shows the boundaries of the Kootenay region and the location of the lake relative to the surrounding areas.

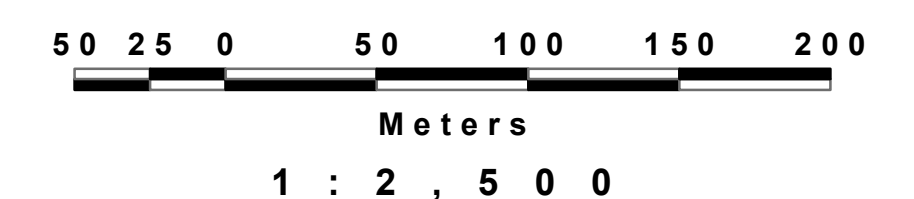
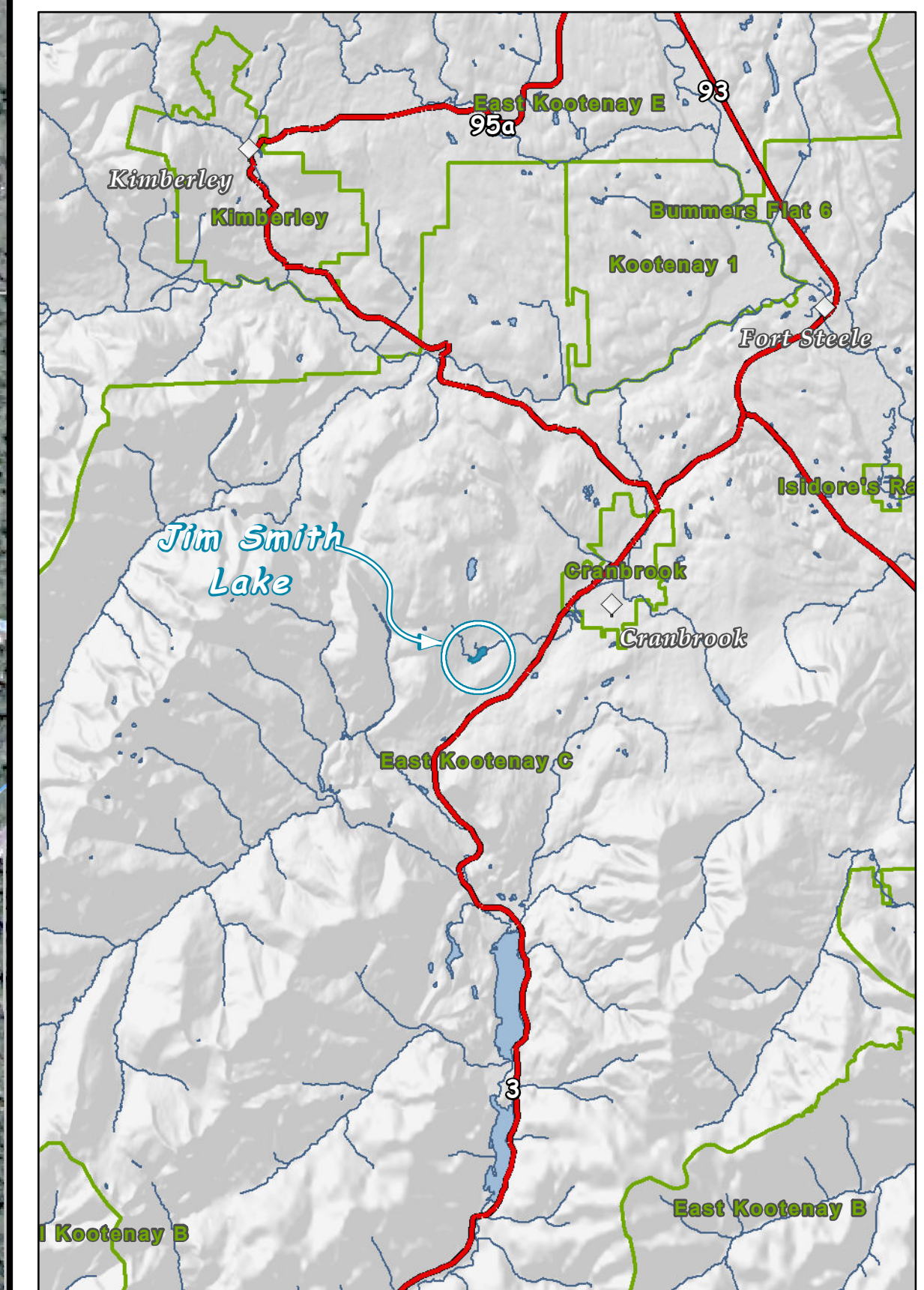
A north arrow pointing towards the top of the page. Below it is a scale bar showing distances in meters (50, 25, 0, 50, 100, 150). The scale is 1:1,500.

East Angus Creek

East Angus Creek Survey Provided
by the Jimsmith Lake Community
Association with data prepared by the Selkirk
Geospatial Research Centre and Interior
Reforestation Co. Ltd. (July 9, 2010)

Legend

- 999 Foreshore Inventory and Mapping (FIM) Segment Number
- Segment Break
- Culvert
- ⊙ Seep
- Streams
- Electoral Area / Municipal Boundary
- Cadastre
- Angus Creek Stream Survey**
- Stream
- - - Subsurface
- ▒ Surveyed Pond
- ▒ Surveyed Riparian
- ▒ Surveyed Wetlands
- Jim Smith Lake Aquatic Habitat Index Ranking**
- Very High
- High
- Moderate
- Low
- Very Low



APPENDIX A

Additional Legal Requirements

This Appendix was reproduced entirely from the Windermere Lake Shoreline Management Guidelines. All credit should be given to the original authors of that document.



Laws and regulations provide the regulatory ‘teeth’ to uphold environmental protection and management. Applicable legislative requirements must be met for a project to be in compliance with the law. Legal requirements have been presented here in the following categories: Federal, Provincial, Regional District and District of Invermere. For each of these jurisdictions, a list of pertinent legislation bylaws and/or plans; and contact information (web site links) has been provided. The reader is cautioned that other legislation (not listed) may apply to their development, and they are encouraged to consult with the appropriate agency prior to proceeding with any proposed works.

1. Federal Legislation

All federal legislation is administered by the parliament of Canada (federal government).

Canada Migratory Birds Convention Act

This Act implements an internationally recognized Convention between Canada and the United States to protect various species of migratory game birds, migratory insectivorous birds and migratory non-game birds including herons. The taking of nests or eggs of these birds is prohibited, except for permitted scientific or propagating purposes.

Fisheries Act

The *Fisheries Act* is administered by the federal DFO and is one of the most important pieces of legislation for managing aquatic resources in Canada. The fish habitat provisions of this Act enable the federal government to protect marine and freshwater habitats supporting those species that sustain fisheries, namely fish, shellfish, crustaceans and marine mammals.

Navigable Waters Protection Act

This act is administered by Transport Canada and is primarily applicable to protecting, maintaining, and developing opportunities for the public to access and use waterbodies for navigation and recreation. Any activities that may affect movement of people or goods, near or on water are affected (i.e. dock/marina construction, dredging, shoreline development).

Pesticides Act

The *Pesticides Act* is intended to 1) prevent and mitigate harmful effects to the environment and human health, and 2) rationalize and reduce the use of pesticides. The Act promotes the analysis, assessment and control of the effects of the use of pesticides through specific activities intended to widen knowledge about these products (environmental monitoring, for example).

Species at Risk Act

This act prevents Canadian indigenous species, subspecies and distinct populations from becoming extirpated or extinct, provides for the recovery of endangered or threatened species and encourages the management of other species to prevent them from becoming at risk.



Canadian Environmental Assessment Act (CEAA)

The CEAA requires federal departments to conduct environmental assessments (EA) for prescribed projects and activities before providing federal approval or financial support. The EA is a planning tool used to identify potential effects of projects or activities on the environment. This includes the air, water, land and living organisms, including humans.

Indian Act

The *Indian Act* provides legislation relating to Indians and Lands Reserved for Indians. The Indian Act is administered by the Minister of Indian Affairs and Northern Development.

2. Provincial Legislation

All provincial government legislation within BC is administered by the legislative assembly of British Columbia (provincial government).

Land Act

The *Land Act* is the main legislation governing the disposition of provincial Crown (i.e. public) land in British Columbia. Crown land is any land owned by the Province, including land that is covered by water, such as the foreshore and the beds of lakes, rivers and streams. The *Land Act* is administered by the Ministry of Sustainable Resource Management.

Wildlife Act

The provincial Ministry of Environment administers the *Wildlife Act*, which includes legislation relating to the conservation and management of wildlife populations and habitat, issuing licenses and permits for fishing, game hunting, and trapping. A provision of the *Wildlife Act*, which may be pertinent to shoreline development is the prohibition, to take, injure, molest, or destroy a) a bird or its egg; b) the nest of an eagle, peregrine falcon, gyrfalcon, osprey, heron, or burrowing owl; c) or the nest of any other bird species when the nest is occupied by a bird or its egg.

Water Act

The *Water Act* is the primary provincial statute regulating water resources. Under the *Water Act*, a stream is defined as “a natural watercourse or source of water supply, whether usually containing water or not, and a lake, river, creek, spring, ravine, swamp and gulch.” Section 9 of the *Water Act* requires that a person may only make “changes in and about a stream” under an Approval or Notification where required; or under a Water License or Order.

Weed Control Act

The B.C. *Weed Control Act* imposes a duty on all land occupiers to control designated noxious plants. The purpose of the Act is to protect our natural resources and industry from the negative impacts of foreign weeds.



3. Regional District of East Kootenay

The Regional District of East Kootenay (RDEK) provides local government services to rural areas outside municipal boundaries. The RDEK functions as a partnership of the municipalities and electoral areas (unincorporated areas) within its boundaries. These local governments work together through the RDEK to provide and coordinate services in both urban and rural areas. Regional districts are governed by the *Local Government Act* and other provincial legislation.



APPENDIX B

Best Management Practices and Regional Operating Statements

This Appendix was reproduced entirely from the Windermere Lake Shoreline Management Guidelines. All credit should be given to the original authors of that document.



Many provincial and federal agencies have developed Best Management Practices (BMP) in order to provide consistent direction to the public on acceptable development methods. The BMPs provide information to help ensure that proposed development activities are planned and carried out in compliance with the various applicable legislation, regulations, and policies. The range of activities that associate BMPs is broad.

The province of BC has, over a period of many years, developed a series of BMPs. These have evolved into “Develop with Care: Environmental Guidelines for Urban and Rural Land Development in British Columbia.” The Develop with Care Guidelines have links to several provincial BMPs related to shoreline development activities. Examples are as follows:

- ◆ Standards and Best Management Practices for Instream Works;
- ◆ Best Management Practices for Small Boat moorage on Lakes
- ◆ Timing and Terms and Conditions for Changes In and About a Stream Specified by MOE Habitat Officers, Kootenay Region
- ◆ Small Boat Moorage
- ◆ Boat Launch Construction and Maintenance on Lakes
- ◆ Lakeshore Stabilization
- ◆ Installation and Maintenance of Water Line Intakes
- ◆ Best Management Practices for Raptor Conservation during Urban and Rural Land Development in British Columbia
- ◆ Best Management Practices for Amphibians and Reptiles in Urban and rural Environments in BC
- ◆ Best Management Practices for Recreational Activities on Grasslands in the Thompson and Okanagan Basins

The Regional Operating Statements (ROS) developed by DFO, provide information regarding several low risk activities associated with shoreline development, including but not limited to:

- ◆ Aquatic Vegetation Removal in Lakes
- ◆ Bridge & Culvert Maintenance
- ◆ Dock and Boathouse Construction in Freshwater Systems
- ◆ Routine Maintenance Dredging for Navigation
- ◆ Public Beach Maintenance
- ◆ Clear Span Bridges
- ◆ Culvert Maintenance
- ◆ Directional Drilling
- ◆ Small Moorings
- ◆ Underwater Cables in Freshwater Systems
- ◆ Overhead Line Construction
- ◆ Maintenance of Riparian Vegetation in Existing Rights of Ways
- ◆ Dry Open Cut Stream Crossing
- ◆ Isolated Ponds

