

6 APPENDIX

APPENDICES

- APPENDIX 1 Biodiversity Resources for Farms and Ranches
- APPENDIX 2 Agency Contacts for Biodiversity
- APPENDIX 3 Legislation
- APPENDIX 4 Other Sources of Information

APPENDIX 1 - BIODIVERSITY RESOURCES FOR FARMS AND RANCHES

ADDITIONAL SOURCES OF BMPs AND OTHER RELATED INFORMATION		
Resource	Description	Where to Find
BC Environmental Farm Plan Reference Guide	Variety of BMPs for biodiversity and other related farm management topics. Includes related legislation	ARDCorp http://ardcorp.ca/programs/environmental-farm-plan/efp-program-resources/
Guidelines and Best Management Practices	Web page with extensive links to different BMP documents	Ministry of Environment & Climate Change, Environmental Stewardship Division www.env.gov.bc.ca/wld/BMP/bmpintro.html
Ducks Unlimited Canada Beneficial Management Practices	List of BMPs related to different aspects of agricultural management, including biodiversity	Ducks Unlimited Canada www.ducks.ca
Biodiversity Conservation: An Organic Farmer's Guide	Extensive list of different activities suitable for organic as well as non-organic operations (US-based)	Wild Farm Alliance www.wildfarmalliance.org/
Grasslands Conservation Council of BC	Resources and publications pertaining to the sustainable management of grasslands across BC	Grasslands Conservation Council of BC resource webpage http://bcgrasslands.org/resources/
Riparian Areas and Grazing Management	Activities to protect and enhance biodiversity around wetlands, streams, rivers, and lakes	Cows and Fish Program http://cowsandfish.org
Rangeland Handbook for Livestock and Wildlife	Factsheets about rangeland ecosystems, grazing best practices, vegetation assessment, management, planning	British Columbia Cattlemen's Association http://www.cattlemen.bc.ca/facts.htm
Rangeland Best Practices	Rangeland health and best practices	https://www2.gov.bc.ca/gov/content/industry/rangelands/management
Farming for Bees – Guidelines for Providing Native Bee Habitat on Farms	Outlines ways to protect and enhance habitat for native crop pollinators in the farm landscape. Includes advice on simple changes that can be made in farm management for the benefit of native bees, and information on how to enhance or provide important habitat features, such as nest sites and forage	The Xerces Society https://www.xerces.org/publications/guidelines/farming-for-bees
Building Soils for Better Crops, 3rd edition	Contains detailed information about soil structure, the management practices that affect soils, and information on how to interpret soil test results	Sustainable Agriculture Research and Education https://www.sare.org/publications/bsbc/bsbc.pdf
Sustainable Agriculture Research and Education Learning Centre	List of resources and publications regarding sustainable agriculture.	Sustainable Agriculture Research and Education resources website https://www.sare.org/Learning-Center

APPENDIX 2 - AGENCY CONTACTS FOR BIODIVERSITY

The following list provides a starting point for contacting agencies to obtain environmental information. Use the table below to determine which agency to contact for the type of information you need. The agencies and their contact information are listed alphabetically by federal and provincial government. However, agency information changes frequently. If you have difficulty contacting any of the offices listed below, please refer to the agency websites.

TYPES OF INFORMATION AVAILABLE FROM AGENCIES	
Desired Information	AVAILABLE FROM (AGENCY SOURCES)
Agroforestry	BC Ministry of Agriculture
Air (air quality)	BC Ministry of Environment & Climate Change Metro Vancouver
Biodiversity – species at risk	BC Ministry of Environment & Climate Change
Buffers	BC Ministry of Agriculture BC Ministry of Environment & Climate Change Fisheries and Oceans Canada
Burning – venting index	Environment and Climate Change Canada BC Ministry of Environment & Climate Change Metro Vancouver
Composting	BC Ministry of Environment & Climate Change Regional Districts
Dams (water control studies)	BC Ministry of Agriculture
Drainage (installation and maintenance) – draining wetlands	BC Ministry of Environment & Climate Change BC Ministry of Forests, Lands, Natural Resource Operations & Rural Development (Front Counter BC) Fisheries and Oceans Canada Environment and Climate Change Canada – Canadian Wildlife Service
Drinking water	BC Ministry of Environment & Climate Change Regional Health Authority
Fertilizers	Agriculture and Agri-Food Canada BC Ministry of Agriculture Canadian Food Inspection Agency
Fish	BC Ministry of Environment & Climate Change Fisheries and Oceans Canada
Groundwater (location, vulnerability and maintenance)	BC Ministry of Environment & Climate Change BC Ministry of Forests, Lands, Natural Resource Operations & Rural Development (Front Counter BC)
Habitat – Terrestrial	BC Ministry of Environment & Climate Change Environment and Climate Change Canada – Canadian Wildlife Service
– Aquatic	BC Ministry of Environment & Climate Change Fisheries and Oceans Canada

TYPES OF INFORMATION AVAILABLE FROM AGENCIES	
Desired Information	AVAILABLE FROM (AGENCY SOURCE)
Land use	Regional District and local municipal governments Agricultural Land Commission
Manure management	BC Ministry of Environment & Climate Change BC Ministry of Agriculture
Odour	BC Ministry of Environment & Climate Change Regional District
Pesticide	Agriculture and Agri-Food Canada BC Ministry of Environment & Climate Change Environment and Climate Change Canada
Septic system	Regional Health Authority
Siting of buildings	Agricultural Land Commission Regional District and local municipal governments
Soils	Agricultural Land Commission BC Ministry of Environment & Climate Change BC Ministry of Energy, Mines and Petroleum Resources BC Ministry of Agriculture
Stormwater	Regional District and local municipal governments
Stream work (working in or about a stream, riparian areas)	BC Ministry of Environment & Climate Change BC Ministry of Forests, Lands, Natural Resource Operations & Rural Development (Front Counter BC) Fisheries and Oceans Canada
Surface water (water course classifications, water quality objectives)	BC Ministry of Environment & Climate Change BC Ministry of Forests, Lands, Natural Resource Operations & Rural Development (Front Counter BC) Fisheries and Oceans Canada Environment and Climate Change Canada
Waste Management – General Farm	BC Ministry of Environment & Climate Change
– Mortality	BC Ministry of Environment & Climate Change Canadian Food Inspection Agency
– No Agriculture	BC Ministry of Environment & Climate Change
Water licences	BC Ministry of Environment & Climate Change BC Ministry of Forests, Lands, Natural Resource Operations & Rural Development (Front Counter BC)
Weeds	Regional District
Woodwaste	BC Ministry of Environment & Climate Change
Zoning, Land use	Regional District and local municipal governments Agricultural Land Commission

FEDERAL AGENCIES

AGRICULTURE AND AGRI-FOOD CANADA

Website: <http://www.agr.gc.ca>

BC Regional Office

4th Floor, Suite 420
4321 Still Creek
Burnaby, BC V5C 6S7
Email: atsbc@agr.gc.ca
Telephone: 604-292-5858
Fax: 604-292-5891

Agassiz Research and Development Centre

6947 Highway 7
PO Box 1000
Agassiz, BC V0M 1A0
Telephone: 604-796-6100
Email: AAFC.AgassizRDC@agr.gc.ca

Summerland Research and Development Centre

4200 Highway No. 97, PO Box 5000
Summerland, BC V0H 1Z0
Tel: (250) 494-7711
Fax: (250) 494-0755
Email: AAFC.SummerlandRDC@agr.gc.ca

CANADIAN FOOD INSPECTION AGENCY

Website: <http://www.inspection.gc.ca>

Canadian Food Inspection Agency

4th Floor, Suite 400
4321 Still Creek Drive
Burnaby, BC V5C 6S7
Tel: (604) 666-6513
Fax: (604) 666-1261

ENVIRONMENT AND CLIMATE CHANGE CANADA

Website: <http://www.ec.gc.ca/>

Environment and Climate Change Canada Pacific and Yukon Region

201 – 401 Burrard Street
Vancouver, BC V6C 3S5
Tel: (604) 664-9100
Fax: (604) 713-9517

Environment and Climate Change Canada – Canadian Wildlife Service

Pacific Wildlife Research Centre
5421 Robertson Road
Delta, BC V4K 3N2
Tel: (604) 940-4700
Fax: (604) 946-7022

Fisheries and Oceans CANADA Website: http://www.dfo-mpo.gc.ca/index.htm	
Lower Mainland	
Fisheries and Oceans Canada Vancouver (Regional HQ) Suite 200 – 401 Burrard Street Vancouver , BC V6C 3S4 Tel: (604) 666-0384 Fax: (604)-666-1847 Email: info@dfo-mpo.gc.ca	Fisheries and Oceans Canada A1-7266 River Place. Mission , BC V5S 0A2 Tel: (604) 814-1055 Fax: (604) 814-1064
Fisheries and Oceans Canada Lower Fraser Area Office Unit 3 – 100 Annacis Parkway Delta , BC V3M 6A2 Tel: (604) 666-8266 Fax: (604) 666-7112	Fisheries and Oceans Canada 327-44500 South Sumas Road Chilliwack , BC V2R 5M3 Tel: (604) 824-3300 Fax: (604) 858-0002
Fisheries and Oceans Canada 5550 – 268th St. Langley , BC V4W 3X4 Tel: (604) 607-4150 Fax: (604) 607-4199	Fisheries and Oceans Canada 1120 Hunter Place, Box 2360 Squamish , BC V0N 3G0 Tel: (604) 892-3230 Fax: (604) 892-2378
Fisheries and Oceans Canada 12551 No. 1 Road Richmond (Steveston), BC V1T 1T7 Tel: (604) 664-9250 Fax: (604) 664-9255	
Vancouver Island and Sunshine Coast	
Fisheries and Oceans Canada 315 - 940 Alder Street Campbell River , BC V9W 2P8 Tel: (250) 850-5701 Fax: (250) 286-5852	Fisheries and Oceans Canada 148 Port Augusta Street Comox , BC V9M 3N6 Tel: (250) 339-2031 Fax: (250) 339-4612
Fisheries and Oceans Canada 5245 Trans Canada Hwy Duncan , BC V0R 2C0 Tel: (250) 746-6221 Fax: (250) 746-8397	Fisheries and Oceans Canada 4706 Tebo Ave. Port Alberni , BC V9Y 8B1 Tel: (250) 720-4440 Fax: (250) 724-2555
Fisheries and Oceans Canada 501 Muchalat Drive Gold River , BC V0P 1G0 Tel: (250) 283-9075 Fax: (250) 283-9058	Fisheries and Oceans Canada PO Box 10, 8585 Wolloson Road Port Hardy , BC V0N 2P0 Tel: (250) 949-6422 Fax: (250) 949-6755
Fisheries and Oceans Canada 304-60 Front Street Nanaimo , BC V9R 5H7 Tel: (250) 754-0230 Fax: (250) 754-0309	Fisheries and Oceans Canada 7255 Duncan Street Powell River , BC V8A 5N6 Tel: (604) 485-7963 Fax: (604) 485-7439
Fisheries and Oceans Canada 3225 Stephenson Point Road Nanaimo , BC V9T 1K3 Tel: (250) 756-7270 Fax: (250) 756-7162	Fisheries and Oceans Canada (Institute of Ocean Sciences) 9860 West Saanich Rd PO Box 6000 Sidney , BC V8L 4B2 Tel: (250) 363-6517
Fisheries and Oceans Canada (Pacific Biological Station) 3190 Hammond Bay Road Nanaimo , BC V9T 6N7 Tel: (250) 756-7000 Fax: (250) 756-7053	Fisheries and Oceans Canada 2-161 1st Street Tofino , BC V0R 2Z0 Tel: (250) 725-3200 Fax: (250) 725-3944
Fisheries and Oceans Canada 4250 Commerce Circle Victoria , BC V8Z 4M2 Tel: (250) 363-3252 Fax: (250) 363-0191	

Fisheries and Oceans CANADA (continued)

Website: <http://www.dfo-mpo.gc.ca/index.htm>

Interior, Central Coast, and Haida Gwaii

<p>Fisheries and Oceans Canada Box 130 Highway 20 Bella Coola, BC V0T 1C0 Tel: (250) 799-5345 Fax: (250) 799-5540</p>	<p>Fisheries and Oceans Canada 417 2nd Avenue W. Prince Rupert, BC V8J 1G8 Tel: (250) 627-3499 Fax: (250) 627-3427</p>
<p>Fisheries and Oceans Canada 280C 3 Avenue N Williams Lake, BC V2G 4T5 Tel: (250) 305-4002 Fax: (250) 305-3017</p>	<p>Fisheries and Oceans Canada Box 99, 137 Bay St Queen Charlotte City, BC V0T 1S0 Tel: (250) 559-4413 Fax: (250) 559-4678</p>
<p>Fisheries and Oceans Canada 985 McGill Place Kamloops, BC V2C 6X6 Tel: (250) 851-4950 Fax: (250) 851-4951</p>	<p>Fisheries and Oceans Canada 1205 North Cariboo Highway 97 Quesnel, BC V2J 2Y3 Tel: (250) 992-2434 Fax: (250) 992-7232</p>
<p>Fisheries and Oceans Canada Box 315 654 Industrial Place Lillooet, BC V0K 1V0 Tel: (250) 256-2650 Fax: (250) 256-2660</p>	<p>Fisheries and Oceans Canada Box 1160, 1751 – 10th Ave. SW Salmon Arm, BC V1E 4P3 Tel: (250) 804-7000 Fax: (250) 804-7010</p>
<p>Fisheries and Oceans Canada 1590 Old Beach Road Masset, BC V0T 1M0 Tel: (250) 626-3316 Fax: (250) 626-3253</p>	<p>Fisheries and Oceans Canada Box 578, 3177 Tatlow Road Smithers, BC V0J 2N0 Tel: (250) 847-2312 Fax: (250) 847-4723</p>
<p>Fisheries and Oceans Canada 118 McDonald Drive Nelson, BC V1L 6B9 Tel: (250) 352-0892 Fax: (250) 352-0916</p>	<p>Fisheries and Oceans Canada 5235 A Keith Ave. Terrace, BC V8G 1L2 Tel: (250) 615-5350 Fax: (250) 615-5364</p>
<p>Fisheries and Oceans Canada 3690 Massey Drive Prince George, BC V2N 2S8 Tel: (250) 561-5366 Fax: (250) 561-5534</p>	<p>Fisheries and Oceans Canada 111 Nass Road, PO Box 216 Upper Nass (New Aiyansh), BC V0J 1A0 Tel: (250) 633-2408 Fax: (250) 633-2439</p>

PROVINCIAL AGENCIES

AGRICULTURAL LAND COMMISSION

Website: <http://www.alc.gov.bc.ca/>

Provincial Agricultural Land Commission

201-4940 Canada Way
Burnaby, BC V5G 4K6
 Tel: (604) 660-7000
 Fax: (604) 660-7033

BC Ministry of Agriculture

Website: <http://www.gov.bc.ca/al/>

Enquiry BC: 1 800 663-7867

Lower Mainland

Agriculture/Horticulture/Dairy Ministry of Agriculture

1767 Angus Campbell Road
Abbotsford, BC V2G 3M2
 Phone: (604) 556-3001
 Fax: (604) 556-3030
 Toll Free: 1-888-221-7141

Plant Diagnostic Lab Ministry of Agriculture

1767 Angus Campbell Road
Abbotsford, BC V2G 3M2
 Tel: (604) 556-3001
 Fax: (604) 556-3154
 Toll Free: 1-888-221-7141

Animal Health Branch Ministry of Agriculture

1767 Angus Campbell Road
Abbotsford, BC V2G 3M2
 Tel: (604) 556-3003
 Fax: (604) 556-3010
 Toll Free: 1-800-661-9903

Resource Management Branch Ministry of Agriculture

1767 Angus Campbell Road
Abbotsford, BC V2G 3M2
 Tel: (604) 556-3001
 Fax: (604) 556-3099
 Toll Free: 1-888-221-7141

Vancouver Island

Ministry of Agriculture BC Access Centre

2500 Cliffe Avenue
Courtenay, BC V9N 5M6
 Tel: (250) 897-7540
 Fax: (250) 334-1410

Ministry of Agriculture Minister's Office

PO Box 9043 Stn Prov Govt
Victoria, BC V8W 9E2
 Tel: (250) 387-1023
 Fax: (250) 387-1522

Ministry of Agriculture

5785 Duncan Street
Duncan, BC V9L 5G2
 Tel: (250) 746-1210
 Fax: (250) 746-1292

Ministry of Agriculture

808 Douglas Street
Victoria, BC V8W 2Z7
 Tel: (250) 356-2521
 Fax: (250) 953-5162

BC Ministry of Agriculture (continued)

Website: <http://www.gov.bc.ca/al/>

Enquiry BC: 1 800 663-7867

Interior

Ministry of Agriculture
1902 Theatre Road
Cranbrook, BC V1C 7G1
Tel: (250) 420-2167
Fax: (250) 420-1767

Ministry of Agriculture
Room 200 – 1690 Powick Road
Kelowna, BC V1X 7G5
Tel: (250) 861-7211
Fax: (250) 861-7490
Toll Free: 1-888-332-3352

Ministry of Agriculture
1243 Northwest Boulevard
Creston, BC V0B 1G6
Tel: (250) 402-6429
Fax: (250) 402-6497

Ministry of Agriculture
Suite 815 – 299 Victoria Street
Prince George, BC V2L 5B8
Tel: (250) 565-7200
Fax: (250) 565-7213
Toll Free: 1-800-334-3011

Ministry of Agriculture
1201 - 103rd Avenue
Dawson Creek, BC V1G 4J2
Tel: (250) 784-2601
Fax: (250) 784-2299

Ministry of Agriculture
3rd Floor, 3726 Alfred Ave
Smithers, BC V0J 2N0
Tel: (250) 847-7246
Fax: (250) 847-7556

Ministry of Agriculture
10043 100th Street
Fort Street John, BC V1J 3Y5
Tel: (250) 787-3240
Fax: (250) 787-3299

Ministry of Agriculture
4607 – 23rd Street
Vernon, BC V1T 4K7
Tel: (250) 260-3000
Fax: (250) 549-5488
Toll Free: 1-800-702-5585

Ministry of Agriculture
162 Oriole Road
Kamloops, BC V2C 4N7
Tel: (250) 371-6050
Fax: (250) 828-4631
Toll Free: 1-888-823-3355

Ministry of Agriculture
300 – 640 Borland Street
Williams Lake, BC V2G 4T1
Tel: (250) 398-4500
Fax: (250) 398-4688

BC Ministry of Environment & Climate Change
 Website: www.gov.bc.ca/env
 Enquiry BC: 1 800 663-7867

Vancouver Island Region

2080-A Labieux Road
Nanaimo, BC V9T 6J9
 Tel: (250) 751-3100
 Fax: (250) 751-3103

Lower Mainland Region

Regional Headquarters, 2nd Floor
 2nd Floor, 10470 - 152nd Street
Surrey, BC V3R 0Y3
 Tel: (604) 582-5200
 Fax: (604) 930-7119

Thompson Region

1259 Dalhousie Drive
Kamloops, BC V2C 5Z5
 Tel: (250) 371-6200
 Fax: (250) 828-4000

Skeena Region

PO Box #5000
 3726 Alfred Avenue
Smithers, BC V0J 2N0
 Tel: (250) 847-7260
 Fax: (250) 847-7591

Cariboo Region

400 - 640 Borland Street
Williams Lake, BC V2G 4T1
 Tel: (250) 398-4530
 Fax: (250) 398-4214

Okanagan Region

102 Industrial Place
Penticton, BC V2A 7C8
 Tel: (877) 356-2029

Omineca Region

4051 18th Ave
Prince George, BC V2N 1B3
 Tel: (250) 565-6135
 Fax: (250) 565-6940

Kootenay Region

Environmental Stewardship Division
 205 Industrial Road G
Cranbrook, BC V1C 7G5
 Tel: (250) 489-8540
 Fax: (250) 489-8506

Peace Region

400-10003 - 110 Avenue
Fort St John, BC V1J 6M7
 Tel: (250) 787-3411
 Fax: (250) 787-3490

Environmental Protection Division

401 - 333 Victoria Street
Nelson, BC V1L 4K3
 Tel: (250) 354-6333
 Fax: (250) 354-6332

BC Ministry of FORESTS, LANDS,
NATURAL RESOURCE OPERATIONS & RURAL DEVELOPMENT

Website: <https://www2.gov.bc.ca/gov/content/governments/organizational-structure/ministries-organizations/ministries/forests-lands-natural-resource-operations-and-rural-development>

Enquiry BC: 1 800 663-7867

**West Coast and Vancouver Island Region
Campbell River Natural Resource District**

370 South Dogwood Street
Campbell River, BC V9W 6Y7
Tel: (250) 286-9300
Fax: (250) 286-9490

Haida Gwaii Natural Resource District

1229 Oceanview Drive
Queen Charlotte, BC V0T 1S0
Tel: (250) 559-6200
Fax: (250) 559-8342

**North Island Natural Resource District
North Island District Office**

2217 Mine Road
Port McNeill, BC V0N 2R0
Tel: (250) 956-5021
Fax: (250) 956-5005

Central Coast District Office

1681 Airport Road
Bella Coola, BC V0T 1C0
Tel: (250) 982-2000

South Island Natural Resource District

4885 Cherry Creek Road
Port Alberni, BC V9Y 8E9
Tel: (250) 731-3000
Fax: (250) 731-3010

Cascades Natural Resource District

3840 Airport Rd
Merritt, BC V1K 1B8
Tel: (250) 378-8400
Fax: (250) 378-8481

Okanagan Shuswap Natural Resource District

2501-14th Ave
Vernon, BC V1T 8Z1
Tel: (250) 558-1700
Fax: (250) 549-5485

Thompson Rivers Natural Resource District

1265 Dalhousie Drive
Kamloops, BC V2C 5Z5
Tel: (250) 371-6500
Fax: (250) 371-6565

**South Coast Region
Chilliwack Natural Resource District**

46360 Airport Road
Chilliwack, BC V2P 1A5
Tel: (604) 702-5700
Fax: (604) 702-5711

Sea to Sky Natural Resource District

101-42000 Loggers Lane
Squamish, BC V8B 0H3
Tel: (604) 898-2100
Fax: (604) 898-2191

Sunshine Coast Natural Resource District

7077 Duncan Street
Powell River, BC V8A 1W1
Tel: (604) 485-0700
Fax: (604) 485-0799

Mackenzie Natural Resource District

1 Cicada Road
Mackenzie, BC V0J 2C0
Tel: (250) 997-2200
Fax: (250) 997-2236

Prince George Natural Resource District

2000 South Ospika Boulevard
Prince George, BC V2N 4W5
Tel: (250) 614-7400
Fax: (250) 953-0413

Stuart Nechako Natural Resource District

1560 Hwy 16 East
Vanderhoof, BC V0J 3A0
Tel: (250) 567-6363
Fax: (250) 567-6370

P.O. Box 100 Stonesbay Road
Fort Street James, BC V0J 1P0
Tel: (250) 996-5200
Fax: (250) 996-5290

Cariboo Region

200 - 640 Borland Street
Williams Lake, BC V2G 4T1
Tel: (250) 398-4574
Fax: (250) 398-4836

100 Mile House Natural Resource District

300 Cariboo Hwy 97
100 Mile House, BC V0K 2E0
Tel: (250) 395-7800
Fax: (250) 395-7810

Quesnel Natural Resource District

322 Johnston Ave.
Quesnel, BC V2J 3M5
Tel: (250) 992-4400
Fax: (250) 992-4403

Peace Natural Resource District

9000 17th Street
Dawson Creek, BC V1G 4A4
Tel: (250) 784-1200
Fax: (250) 784-0143

Fort Nelson Natural Resource District

6100 Alaska Hwy.
Fort Nelson, BC V0C 1R0
Tel: (250) 774-5511
Fax: (250) 774-3704

Skeena Region

Nadina Natural Resource District

183 Highway 16 West
Burns Lake, BC V0J 1E0
Tel: (250) 692-2200
Fax: (250) 692-7461

Skeena Stikine District Office

3333 Tatlow Road
Smithers, BC V0J 2N0
Tel: (250) 847-6300
Fax: (250) 847-6353

Hazelton Field Office

2210 Hwy 62 West
Hazelton, BC V0J 2N0
Tel: 1-888-540-8611

Coast Mountain Natural Resource District

200-5220 Keith Ave.
Terrace, BC V8G 1L1
Tel: (250) 638-5100
Fax: (250) 638-5176

Kootenay Region

Selkirk Natural Resource District

1907 Ridgewood Road
Nelson, BC V1L 6K1
Tel: (250) 825-1100
Fax: (250) 825-9657

Rocky Mountain Natural Resource District

1902 Theatre Road
Cranbrook, BC V1C 7G1
Tel: (250) 426-1766
Fax: (250) 426-1767

APPENDIX 3 - LEGISLATION

PLEASE NOTE: This section has been prepared for information purposes only and has no official sanction. It is not a substitute for the Acts mentioned or any regulations under these Acts. In the event of an inconsistency between the information included here and the Act or its regulations, the latter would prevail. Official or more detailed information can be found in the legal text of the Acts.

FEDERAL LEGISLATION

The Impact Assessment Act

This *Impact Assessment Act* (IAA) replaces the *Canadian Environmental Assessment Act*. This Act recognizes the impact of assessments to provide in effective integration of scientific information and Indigenous knowledge in decision-making on projects. Public (directly impacted by projects or not) has the opportunity to participate in the impact assessment process as well as other government jurisdictions. Beyond the *Canadian Environmental Assessment Act* scope of environmental effects of proposed project, the IAA addresses the need for the project; if there are potential alternatives to the project; Indigenous and community knowledge; and climate change impacts. The Act applies to projects or undertakings in which the Government of Canada has decision-making authority, whether as a proponent, land manager, funding agency or regulator. It requires that such projects undergo a review before they are allowed to proceed to ensure that they do not cause significant adverse environmental effects.

Full legal text of the Act is available at

<https://laws-lois.justice.gc.ca/eng/acts/I-2.75/page-1.html#h-1160082>

Canadian Impact Assessment Registry

<https://iaac-aeic.gc.ca/050/evaluations/050?culture=en-CA>

Canadian Environmental Protection Act, 1999

This Act establishes the legal framework for pollution prevention in Canada, and is intended to ensure the protection of the environment and human health from toxic substances and wastes. It addresses both air and water pollution from diverse sources, including nutrients; fuels; and vehicle, engine and equipment emissions. It also provides the Minister of Environment with the authority to require the development of pollution prevention plans in specific circumstances.

Full legal text of the Act is available at

<https://laws-lois.justice.gc.ca/eng/acts/c-15.31/>

CEPA Environmental Registry

<https://pollution-waste.canada.ca/environmental-protection-registry/regulations>

Fisheries Act

Administered by both Fisheries and Oceans Canada and Environment and Climate Change Canada, this Act is established to manage Canada's fisheries resources, including fish habitat. The Act can also be administered provincially by FLNRORD and ENV. The Act applies to all Canadian waters that contain fish, including ditches, channelized streams, creeks, rivers, marshes, lakes, estuaries, coastal waters and marine offshore areas. It also applies to seasonally wetted areas that provide fish habitat such as shorelines, stream banks, floodplains, intermittent tributaries and privately owned land. The Act includes provisions for stiff fines and imprisonment to ensure compliance.

The purpose of this Act is to provide a framework for (a) the proper management and control of fisheries; and (b) the conservation and protection of fish and fish habitat, including by preventing pollution.

This Act was updated in 2019 and now empowers the Minister to make regulations for the purposes of the conservation and protection of biodiversity. The definition of fish habitat is: "water frequented by fish and any other areas on which fish depend directly or indirectly to carry out their life processes, including spawning grounds and nursery, rearing, food supply and migration areas." The quantity, timing and quality of the water flow that are necessary to sustain fish habitat are also deemed to be a fish habitat. Furthermore, serious harm to fish includes the death of fish or any permanent alteration to, or destruction of, fish habitat.

Provisions of the 2019 *Fisheries Act* relevant to agricultural operations include:

- ▶ protection for all fish and fish habitats;
- ▶ prohibition against the death of fish or the 'harmful alteration, disruption or destruction of fish habitat';
- ▶ a permitting framework and codes of practice to improve management of large and small projects impacting fish and fish habitat
- ▶ protection of fish and/or fish habitats that are sensitive, highly productive, rare or unique; and
- ▶ consideration for the cumulative effects of development activities on fish and fish habitat.

Full legal text of the Act is available at
<https://laws-lois.justice.gc.ca/eng/acts/f-14/>

Migratory Birds Convention Act, 1994

The purpose of this Act is to ensure the protection and conservation of migratory birds in Canada, both as populations and individual birds. The Act makes it illegal to disturb, destroy or take an egg, nest, or other shelter of a migratory bird without a permit. The Act also prohibits the possession, purchase, sale or other exchange of a migratory bird or its nest without authorization. The Act further prohibits the deposit of any substance that may be harmful to migratory birds, (for example, oil, pesticides) in waters or other areas that they frequent. The Act allows for the use of equipment, other than aircraft or firearms, to scare migratory birds that may be causing damage to crops or other property. Native birds that are not protected by this Act but are protected by the provincial *Wildlife Act* include raptors (including owls), upland game birds, pelicans, cormorants, kingfishers, crows, ravens, jays, magpies, and blackbirds. Selected introduced bird species that have proven to be invasive and problematical are not protected by either Act. The *Migratory Birds Convention Act* is administered by Environment and Climate Change Canada.

Full legal text of the Act is available at
<https://laws-lois.justice.gc.ca/eng/acts/m-701/>

Pest Control Products Act

Administered by Health Canada, this Act serves to protect human health and safety and the environment by regulating products used for the control of pests (for example, herbicides, insecticides, fungicides, biological controls). The Act applies to all pest control products, whether they are used in agriculture, forestry, industry, public health or domestic situations. The Act requires that pest control products be registered and bear a *Pest Control Products Act* registration number on the label before they can be used legally in Canada. It is an offence under the Act to use an unregistered pesticide or to use a pest control product in a way that is inconsistent with the directions or limitations as shown on the product label. Provisions exist in the Act to approve the use of products not registered in Canada if no acceptable alternative control is available. The expanded use of registered products for non-registered uses may also be granted under specific circumstances.

Full legal text of the Act is available at
<https://laws-lois.justice.gc.ca/eng/acts/p-901/>

Plant Protection Act

Administered by Agriculture and Agri-Food Canada, this Act serves to protect plant life and the agriculture and forestry industries by preventing the import, export and spread of injurious pests. Under the Act, a pest means anything that is known or suspected to be injurious, whether directly or indirectly, to plants or to products or by-products of plants. A plant can be considered a pest. The Act prohibits the introduction of pests, whether deliberate or unintentional, and provides for the control and eradication of such pests where they occur. The Act further allows the Minister of Agriculture and Agri-Food Canada to provide financial or technical assistance to any person or government outside Canada in order to control or eradicate a pest that could affect plants in this country.

Full legal text of the Act is available at
<https://laws-lois.justice.gc.ca/eng/acts/p-14.8/>

Species at Risk Act

Administered by Environment and Climate Change Canada, the purpose of this Act is to prevent native species in Canada from becoming extirpated or extinct, to provide for the recovery of endangered or threatened species and to encourage the management of other species to prevent them from becoming at risk. Schedule 1 of the Act sets out the list of species legally considered to be at risk in Canada. The Act applies to all waters in Canada as well as to all federal lands, including Indian reservations and national parks, and the airspace above them. Under the Act, the Minister of Environment and Climate Change Canada has the authority to apply the provisions of the Act to provincial lands if it is felt that provincial laws are not providing effective protection.

Where the Act applies, it makes it illegal to kill, harm, harass, capture or take a species at risk, or to possess, collect, buy, sell or trade any individual or parts of an individual that is at risk. The Act also prohibits the damage or destruction of either the residence (for example, the nest or den) or the critical habitat of any species at risk. On private land, these prohibitions apply only to:

- ▶ aquatic species at risk; and
- ▶ migratory birds listed in the *Migratory Birds Convention Act*, 1994 and also listed as endangered, threatened or extirpated in Schedule 1 of the Act.

The Act requires that recovery strategies be developed and implemented for all species at risk. Fisheries and Oceans Canada leads the recovery planning process for aquatic species, while Environment and Climate Change Canada and Parks Canada lead the process for all other species.

Full legal text of the Act is available at
<https://laws-lois.justice.gc.ca/eng/acts/s-15.3/>

Species at Risk Public Registry
<http://www.sararegistry.gc.ca>

Aquatic Species at Risk Homepage - DFO
<https://www.dfo-mpo.gc.ca/species-especes/sara-lep/index-eng.html>

PROVINCIAL LEGISLATION

Community Charter

The Community Charter contains provisions enabling municipalities to establish bylaws and services that can help protect biodiversity. This includes the authority for municipalities to create bylaws to protect trees and the concurrent authority to develop other regulatory bylaws to protect the environment, subject to provincial involvement and regulation. The Environment and Wildlife Regulation (B.C. Reg. 144/2004) establishes the specific types of bylaws that municipalities can adopt under this concurrent authority to protect the natural environment. By bylaw, municipalities can:

- ▶ regulate and prohibit activities affecting waterways;
- ▶ regulate, prohibit, and impose requirements for sale of wild flowers;
- ▶ regulate, prohibit, and impose requirements in relation to the application of pesticides for certain purposes (with some restrictions);
- ▶ regulate, prohibit, and impose requirements to control and eradicate some alien invasive species; and
- ▶ regulate, prohibit, and impose requirements to control some wildlife species.

Text of the Community Charter is available at
http://www.bclaws.ca/Recon/document/freeside/--%20c%20--/community%20charter%20%20sbc%202003%20%20c.%2026/00_act/03026_00.htm

Text of the Environment and Wildlife Regulation (B.C. Reg. 144/2004) is available at
http://www.bclaws.ca/Recon/document/freeside/--%20c%20--/community%20charter%20%20sbc%202003%20%20c.%2026/05_regulations/41_144_2004.xml

Environmental Management Act

The purpose of the *Environmental Management Act* is to protect human health and the quality of water, land and air in British Columbia through authorizing the introduction of waste into the environment in a manner that will not cause adverse impacts to the environment and human health. Waste is defined as including “air contaminants, litter, effluent (liquid), refuse (solid), biomedical waste, hazardous wastes” and any other substance designated by Cabinet. Pollution is defined in the Act as “the presence in the environment of substances or contaminants that substantially alter or impair the usefulness of the environment.”

Within this Regulation, the Code of Practice for Agricultural Environment Management describes agricultural practices for using, storing and managing agricultural waste in a manner that is environmentally sound.

Agricultural activities are subject to several other regulations under this Act, such as the Contaminated Sites Regulation and the Open Burning Smoke Control Regulation. The full Agricultural Waste Control Regulation and Code of Agricultural Practice for Waste Management, along with information on the other regulations can be found in Appendix A.6. of the EFP Nutrient Management Reference Guide.

Text of the Act is available is at

http://www.bclaws.ca/Recon/document/freeside/--%20e%20--/environmental%20management%20act%20%20sbc%202003%20%20c.%2053/00_act/03053_04.xml

Text of the Waste Discharge Regulation is available at

http://www.bclaws.ca/Recon/document/freeside/--%20E%20--/Environmental%20Management%20Act%20%20SBC%202003%20%20c.%2053/05_Regulations/50_320_2004.xml

Fish Protection Act

The *Fish Protection Act* enables the protection of fish and fish habitats. Four main objectives of the Act are to ensure sufficient water for fish; enable fish habitat to be protected and restored; improve riparian habitat protection and enhancement; and, give local governments greater powers of environmental planning.

One major section of the Act prohibits construction of new dams on specified major rivers. Another part of the Act allows designation of sensitive streams and recovery plans. Such streams would have restrictions placed on new water licenses or approvals, or amendments to existing ones until the stream has recovered.

Under the Act and through the Riparian Areas Regulation the province can provide directives to local government to protect riparian fish habitat during their approval/allowance of residential, commercial, and industrial development. This includes residential buildings on land zoned for agricultural purposes. The Riparian Areas Regulation is administered by the Ministry of Environment & Climate Change.

Text of the Act is available at

http://www.env.gov.bc.ca/habitat/fish_protection_act/act/documents/act-theact.html¹

Text of the Riparian Areas Regulation is available at

http://www.bclaws.ca/Recon/document/ID/freeside/00_97021_01

¹ This version of the Statutes and Regulations of British Columbia, and the other links to provincial legislation in this section, are for private study or research purposes only, and are not the official version. The Province of British Columbia does not warrant the accuracy or the completeness of this electronic version of the Statutes and Regulations and in no event will the Province be liable or responsible for damages of any kind arising out of the use of them.

Integrated Pest Management Act

This Act, administered by the British Columbia Ministry of Environment & Climate Change, establishes conditions for the sale and use of pesticides in BC. It requires that pesticides not be stored, handled, transported, used or disposed of in a manner that causes, or is likely to cause, an unreasonable adverse effect. The legislation establishes standards for pesticide storage, transport, sale and use and requires that pesticides applied on public land, private forest land, rights-of-way or on a fee-for-service basis be used as part of an Integrated Pest Management program.

Text of the Act is available at

http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/00_03058_01

Text of the Integrated Pest Management Regulation is available at

http://www.bclaws.ca/civix/document/id/loo91/loo91/604_2004

Summary of the Act and Regulation is available at

http://www.llbc.leg.bc.ca/public/pubdocs/bcdocs/378602//leg_summary.pdf

Local Government Act

Local governments in British Columbia (municipalities, regional districts, and the Islands Trust) are responsible for regulating private land use and development through planning, zoning, and subdivision control. The *Local Government Act* is the primary provincial statute that enables local governments in British Columbia to establish local planning bylaws that can contain policies for protecting the natural environment and reducing greenhouse gases. Regional districts and municipalities can also work together to develop regional growth strategies to protect environmentally sensitive areas and address other growth issues. A regional growth strategy has to cover a 20-year time period and must include provisions for addressing regional-scale issues related to parks and natural areas.

Text of the Act is available at

http://www.bclaws.ca/civix/document/id/lc/statreg/r15001_00

Plant Protection Act

Administered by the Ministry of Agriculture, this Act is the provincial counterpart to the federal *Plant Protection Act* that focuses on plant protection issues affecting Canada. It provides for the prevention of the spread of pests destructive to plants in BC. Inspectors have powers to enforce the provisions of the Act, including the authority to establish quarantine areas. To assist in the enforcement of the Act, the BC Plant Protection Advisory Council advises and coordinates the actions of provincial and federal officials to deal with potential hazards to BC agriculture and forestry from insects, plant diseases, weeds or other biotic agents. The Council's power comes from the mandates of the agencies whose members sit on committees struck to deal with plant protection issues in specific commodity sectors.

Text of the Act is available at

http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/00_96365_01

Water Users' Communities Act

The *Water Act* of British Columbia provides a scheme for the licensing and regulation of the diversion, use and storage of water and for authorizing changes in and about streams. The *Water Act* applies only to surface water in streams, which include "a natural watercourse or source of water supply, whether usually containing water or not, and a lake, river, creek, spring, ravine, swamp and gulch". At this time the provisions do not apply to the diversion and use of groundwater.

Water licences may be granted by designated statutory decision makers – either the Comptroller of Water Rights or Regional Water Managers – in response to applications. Similarly, approvals may be granted that authorize changes in and about streams. Regulations under the *Water Act* also allow for making low risk changes in and about streams without the need for an approval, subject to prescribed conditions and requirements of a habitat officer. Most prescribed activities under the Water Regulation require that the Ministry of Environment & Climate Change must be notified of the proposed change 45 days prior to commencement of work.

The process to acquire a licence or approval usually involves consideration of the potential impact on the rights of other licensees as well as possible impacts on the instream flow required for fish and aquatic ecosystems. Applications may be refused or licences granted that include specific conditions to protect instream environmental values. Water use or changes in and about streams may also be subject to review and approval by Fisheries and Oceans Canada under the *Fisheries Act*.

Water Management Planning provisions which have recently been added to the *Water Act* may be implemented to address conflicts between users or between users and instream flow requirements or water quality.

Text of the Act is available at

http://www.bclaws.ca/civix/document/id/complete/statreg/96483_01

Weed Control Act

Administered by BC Ministry of Agriculture, this Act places the responsibility for the control of noxious weeds on the occupiers of the land. It provides for the appointment of inspectors to ensure compliance and, failing that, for a method by which they can control weeds and recover the costs from the occupier. Weed Control Committees may be established by municipal councils to administer the Act within a municipality. Committees report to the municipal council and the Minister.

Text of the Act is available at

http://www.bclaws.ca/civix/document/id/complete/statreg/96487_01

Wildlife Act

The purpose of the *Wildlife Act* is to protect and conserve wildlife species and ensure the sustainable use of wildlife resources. The Act regulates human activities (hunting, fishing, possession, import, trafficking, etc.) that affect listed "wildlife" species. The majority of species listed as "wildlife" are native species of mammals, birds, amphibians, reptiles and freshwater inland fish. The Act provides government officials with the authority to regulate personal, recreational, and commercial uses of wildlife and protect wildlife and wildlife habitat from exploitation and destruction. It sets out the rules that must be followed when hunting, trapping, and angling for freshwater fish and possessing live and dead wildlife. The Act is administered by the BC Ministry of Environment & Climate Change.

Text of the Act is available at

http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/00_96488_01

Wildlife Amendment Act, 2004

The *Wildlife Amendment Act, 2004* expands the provincial government's ability to list and protect species at risk under the *Wildlife Act* (See above). It enables government to list as endangered, threatened or extirpated the full range of species that can be similarly listed under the federal *Species at Risk Act* (including plants and invertebrates). It also allows the protection of residences, such as nests or dens, for species at risk. These changes to the *Wildlife Act* must be brought into force through regulation.

Species at risk may include species, subspecies, varieties, or genetically or geographically distinct populations of: animals, fish, plants, or other organisms (except bacteria and viruses). Species residences are a place or area in, or a natural feature of, the habitat of the species at risk that is habitually occupied or used as a dwelling place by one or more individuals, and is considered as necessary for that occupation or use. With listing comes a series of prohibitions against the killing, trading, trafficking and transport of individuals of that species, and against the damage or destruction of its residence. Subject to the regulations, permits may be issued, or agreements entered into, that authorize exceptions to the prohibitions under certain circumstances.

Text of the Act is available at

http://www.leg.bc.ca/37th5th/3rd_read/gov51-3.htm

APPENDIX 4 - OTHER SOURCES OF INFORMATION

Agriculture and Agri-Food Canada: Agricultural Partnership (CAP) <http://www.agr.gc.ca/eng/about-us/key-departmental-initiatives/canadian-agricultural-partnership/?id=1461767369849>

Alberta Agriculture, Food and Rural Development. 2007. Biodiversity conservation guide for farmers and ranchers in Alberta.

Alberta Riparian Habitat Management Society. Cows and Fish website www.cowsandfish.org/

ATTRA Sustainable Agriculture. Master publication list: <https://attra.ncat.org/publication.html>

Balvanera, P., A.B. Pfisterer, N. Buchmann, J.-S. He, T. Nakashizuka, D. Raffaelli and B. Schmid. 2006. Quantifying the evidence for biodiversity effects on ecosystem functioning and services. *Ecol. Lett.* 9: 1146-1156.

BC Agriculture and Food Climate Action Initiative. Farm Adaptation Innovator Program. <https://www.bcagclimateaction.ca/farm-level/adaptation-innovator-program/>

BC Cattlemen's Association: Farmland-Riparian Interface Stewardship Program www.cattlemen.bc.ca/FRISP.htm

BC Cattlemen's Association: Livestock Protection Program <http://www.cattlemen.bc.ca/lpp.htm>

BC Conservation Data Centre <https://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/conservation-data-centre>

BC Conservation Data Centre iMap tutorial video <https://www.youtube.com/watch?v=DPEUboAeaWY>

BC Ministry of Agriculture. AgriService BC website <https://www2.gov.bc.ca/gov/content/industry/agriservice-bc>

BC Ministry of Environment & Climate Change: Biodiversity in BC www.env.gov.bc.ca/wld/bio.htm

BC Ministry of Environment & Climate Change: Ecology website www.env.gov.bc.ca/ecology/index.html

BC Ministry of Forests: Ecosystem brochures www.for.gov.bc.ca/hre/becweb/resources/classificationreports/provincial/index.html

BC Ministry of Forests: Forest District biogeoclimatic maps www.for.gov.bc.ca/hre/becweb/resources/maps/fieldmaps.html

BC Ministry of Forests: Forest Region field guides www.for.gov.bc.ca/hre/becweb/resources/classificationreports/regional/index.html

Biodiversity Conservation Strategy for the Greater Vancouver Region www.metrovancouver.org/services/regional-planning/PlanningPublications/BiodiversityActionProfiles2007.pdf

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Bullock, J.M., R.F. Pywell, M.J.W. Burke, and K.J. Walker. 2001. Restoration of biodiversity enhances agricultural production. *Ecol. Lett.* 4: 185-189.

Canadian Biodiversity Information Facility <http://www.cbif.gc.ca/eng/home/?id=1370403266262>

Canadian Intermountain Joint Venture <http://cijv.ca>

Convention on Biological Diversity www.cbd.int

Delta Farmland and Wildlife Trust <https://deltafarmland.ca>

Develop with Care: Appendix D: Sources for environmental mapping and inventory <https://www2.gov.bc.ca/assets/gov/environment/natural-resource-stewardship/best-management-practices/develop-with-care/dwc-appendices-a-f.pdf>

Ducks Unlimited Canada <http://www.ducks.ca>

Environment and Climate Change Canada Species at Risk public registry <https://www.registrelep-sararegistry.gc.ca>

Environment and Climate Change Canada Species at Risk information <https://www.canada.ca/en/environment-climate-change/services/species-risk-act-accord-funding.html>

FrontCounter BC www.frontcounterbc.gov.bc.ca/

GeoGratis free web-based map site for Canada <http://geogratis.cgdi.gc.ca/>

Google Earth <http://earth.google.com/>

Habitat Wizard BC

<https://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/ecosystems/habitatwizard>

Hectares BC www.hectaresbc.org/app/habc/HaBC.html

Invasive Species Council of BC <https://bcinvasives.ca>

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Partners in Flight <https://www.partnersinflight.org>

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Salmon River Watershed Roundtable https://www.fraserbasin.bc.ca/_Library/Recent_Events_Presentations/ws_presentation_srwr_2013_wallis.pdf

South Okanagan-Similkameen Conservation Program <http://www.soscp.org/>

Stewardship Centre BC <http://stewardshipcentrebc.ca/resources/>

Stewardship Centre BC. Drainage maintenance in agricultural waterways. 2013. https://www.fraserbasin.bc.ca/_Library/TR/StewardshipPracticesforDrainageMaintenancePilot12-2013.pdf

Stewardship Centre BC. Lands near water. 2013, updated 2018. http://stewardshipcentrebc.ca/PDF_docs/sar/LandsNearWater.pdf

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Wild Farm Alliance. Biodiversity resources <https://www.wildfarmalliance.org/biodiversity>

Yellowstone to Yukon Conservation Initiative www.y2y.net

