

Appendix K

Traditional Land Use



Appendix K1

Species List



Wildlife Harvested

S	pecies		Use – Food, Medicine,		
Common Name	Scientific Name	Location (Harvesting, Habitat, Other)	Cultural/Spiritual, Domestic, Other	Reference	
Bear (black)	Ursus americanus	Region (harvesting)	Food; medicine; spiritual; domestic; other	CNRL 2012; FMFN in Suncor 2005a; FMFN in Birch Mountain 2006; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2	
		West of Bourque Lake		CLFN in Imperial 2002	
		Region (harvesting)		CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Devon Pike 1, 2012, Wood 2018a,b in Devon Pike 2	
		Between Sinclair Lake and May Lake		CLFN in Imperial 2002	
		Throughout CLAWR		CLFN in Imperial 2002	
Woodland caribou	Rangifer tarandus	At Sinclair Lake mineral lick	Food; spiritual; domestic	CLFN in Imperial 2002	
		Areas between Heart Lake, Winefred Lake and Christina Lake		HLFN in KNOC 2009	
		Areas of Little Smokey River, Simonette River and Latorelle rivers are seasonal habitat for regional caribou		KCFN in KCPN 2012	
		Region (harvesting)	Food	CNRL 2012; FMFN in Birch Mountain 2006; Devon Jackfish] 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2	
Deer	Odocoileus spp.	Areas between Heart Lake, Winefred Lake and Christina Lake		HLFN in KNOC 2009	
		Along Wiau River, Wiau Lake and Clyde Lake		HLFN in Cenovus 2013	
Deer (mule)	Odocoileus hemionus	region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a for the Devon Pike 2 Application; Wood 2018b for the Devon Pike 2 Application	
Deer (whitetail)	Odocoileus virginianus	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018 a for the Devon Pike 2 Application	



Sı	pecies		Use – Food, Medicine,	
Common Name	Scientific Name	Location (Harvesting, Habitat, Other)	Cultural/Spiritual, Domestic, Other	Reference
		Region (harvesting)		CNRL 2012; FMFN in Birch Mountain 2006; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
		Between Cold Lake and Wolf Lake		CLFN in Imperial 2002
Moose	Alces alces	At May Lake and Bourque Lake	Food, medicine; spiritual; domestic; other	CLFN in Imperial 2002
		At Sinclair Lake mineral lick		CLFN in Imperial 2002
		Areas between Heart Lake, Winefred Lake and Christina Lake		HLFN in KNOC 2009
		Along Wiau River, Wiau Lake and Clyde Lake		HLFN in Cenovus 2013
Wildlife generally		Areas between Heart Lake, Winefred Lake and Christina Lake		HLFN in KNOC 2009
		North of CLAWR	Not identified	HLFN in Cenovus 2013
		Hunting corridor connecting Wiau Lake to Christina Lake		HLFN in Cenovus 2013

Note:

CLAWR = Cold Lake Air Weapons Range.



Birds Harvested

Species			Use – Food, Medicine,	
Common Name	Scientific Name	Location (Harvesting, Habitat, Other)	Cultural/Spiritual, Domestic, Other	Reference
Bald eagle	Haliaeetus leucocephalus	Region (harvesting)	Not identified	Cenovus 2013; Wood 2018a,b in Devon Pike 2
Crow	Corvus brachyrhynchos	Region (harvesting)	Not identified	Cenovus 2013
Curlew (general) ¹		Region (harvesting)	Not identified	Cenovus 2013
Duck (general)	Anas spp.	Region (harvesting)	Not identified	Cenovus 2013; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Canada goose	Branta canadensis	Region (harvesting)	Not identified	Cenovus 2013; Wood 2018a,b in Devon Pike 2
Grouse (general)		Region (harvesting)	Not identified	Cenovus 2013; FMFN in Birch Mountain 2006; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
		Areas between Heart Lake, Winefred Lake and Christina Lake		HLFN in KNOC 2009
Hawk (various species)	Multiple genus	Region (harvesting)	Not identified	Wood 2018a,b in Devon Pike 2
Loon	Gavia immer	Region (harvesting)	Not identified	Cenovus 2013; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
		Primrose Lake and Stouffers Laker	Not identified	CLFN in Imperial 2002
Mudhens/American coot	Fulica americana	Region (harvesting)	Not identified	Cenovus 2013; Devon Jackfish 3, 2010
Owl	Strigiformes	Region (harvesting)	Not identified	Cenovus 2013; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Devon Pike 1, 2012; Wood 2018a,b in Devon Pike 2
Partridge	Perdix spp.	Region (harvesting)	Not identified	CNRL 2012
Prairie chicken	Tympanuchus cupido	Region (harvesting)	Not identified	Wood 2018a,b in Devon Pike 2
Ptarmigan	Lagopus spp.	Region (harvesting)	Not identified	Cenovus 2013; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Pelican		Region (harvesting)	Not identified	Cenovus 2013; Wood 2018a,b in Devon Pike 2
Sandhill crane	Grus canadensis	Region (harvesting)	Not identified	Cenovus 2013
Seagull	Laridae spp.	Region (harvesting)	Not identified	Cenovus 2013
Spinos (Milson spino)	Callingae delicata	Region (harvesting)	Not identified	Cenovus 2013
Snipes (Wilson snipe)	Gallinago delicata	Wiau Lake, Clyde Lake (harvesting)	Not identified	CNRL 2012

Note:

 $^{^{\, 1}}$ Scientific studies have not confirmed the presence of curlews occur in this area.



Furbearers Harvested

Species			Use – Food, Medicine,	
Common Name	Scientific Name	Location (Harvesting, Habitat, Other)	Cultural/Spiritual, Domestic, Other	Reference
Badger	Taxidea taxus	Region (harvesting)	Not identified	CNRL 2012
Beaver	Castor canadensis	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Black bear	Ursus americanus	Region (harvesting)	Not identified	Devon Jackfish 3, 2010
Coyote	Canis latrans	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Fisher	Martes pennanti	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Red fox	Vulpes vulpes	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a in Devon Pike 2
Arctic fox	Vulpes lagopus	Region (harvesting)	Not identified	Devon Jackfish 3, 2010; Wood 2018a in Devon Pike 2
Lynx	Lynx canadensis	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Marten	Martes americana	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Mink	Mustela vison	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Muskrat	Ondatra zibethicus	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Otter	Lutra canadensis	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018b in Devon Pike 2
Porcupine	Erethizon dorsatum	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006
Dalahi t		Region (harvesting)		CNRL 2012; Devon Jackfish 2, 2006; Wood 2018a,b in Devon Pike 2
Rabbit	Lepus spp. Areas between Heart Lake, Winefred Lake and Christina Lake Not identified	Not identified	HLFN in KNOC 2009	
Skunk	Mephitis mephitis	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006
Red squirrel	Tamiasciurus hudsonicus	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Short-tailed weasel	Mustela ermine	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010



Species		Use – Food, Me		icine,	
Common Name	Scientific Name	Location (Harvesting, Habitat, Other)	Cultural/Spiritual, Domestic, Other	Reference	
Wolf	Canis lupus	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2	
Wolverine	Gulo gulo	Region (harvesting)	Not identified	CNRL 2012; Devon Jackfish 2, 2006	
		Areas surrounding Bourque Lake, May Lake and Marie Lake	Not identified	CLFN in Imperial 2002	
Furboarers generally		Vicinity of and within CLAWR		CLFN in Cenovus 2013; HLFN in Cenovus 2013	
Furbearers generally		Areas between Heart Lake, Winefred Lake and Christina Lake	Not identified	HLFN in KNOC 2009	
		Around Ipiatik Lake and Christina Lake	Not identified	HLFN in Cenovus 2013	

Note:

CLAWR = Cold Lake Air Weapons Range.



Fish Harvested

S	pecies	Location (Harvesting, Habitat, Other)	Use – Food, Medicine,	
Common Name	Scientific Name		Cultural/Spiritual, Domestic, Other	Reference
		Region (habitat, harvesting)		CNRL 2012; FMFN in Birch Mountain 2006; Devon
Arctic grayling ¹	Thymallus arcticus	Winefred River	Food	Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Bull trout ¹	Salvelinus confluentus	Region (harvesting)	Food	Cenovus 2013; Devon Jackfish 3, 2010
Buil trout-	Salvelinus Confluentus	Christina Lake and its surrounding rivers/creeks		HLFN in KNOC 2009
Lake trout	Salvelinus namaycush	Grist Lake, Winefred Lake, Winefred River, Clearwater River, Hay Lake, Kirby Lake	Food	Wood 2018a for the Devon Pike 2 Application; Wood 2018b in Devon Pike 2
Burbot/maria/ mariah/catfish/ lingcod	Lota lota	Region (habitat)	Food	CNRL 2012
Cisco (tulaby, tullibee)	Coregonus artedi	Region (harvesting)	Food	Cenovus 2013
Goldeye ¹	Hiodon alosoides	Region (harvesting)	Food	CNRL 2012
Lake chub	Couesius plumbeus	Region (habitat)	Food	Cenovus 2013; FMFN in Birch Mountain 2006;
	Esox lucius	Region (habitat, harvesting)	Food	CNRL 2009 in CNRL 2012, Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Northern pike/jackfish		Christina Lake and its surrounding rivers/creeks		HLFN in KNOC 2009
pike/jackiisii		Winefred Lake, Clearwater River, Hay lake, Kirby Lake; Torch Lake		Wood 2018a,b in Devon Pike 2
Davida		Region (harvesting)	Food	CNRL 2012
Perch		Found in Bourque Lake	F000	CLFN in Imperial 2002
Sucker	Catostomus spp.	Region (habitat, harvesting); Clearwater River	Food	CNRL 2009 in CNRL 2012; Wood 2018a,b in Devon Pike 2
Walleye/pickerel	Sander vitreus	Region (habitat, harvesting)	Food	CNRL 2009 in CNRL 2012; FMFN in Birch Mountain 2006; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
		Christina Lake and its surrounding rivers/creeks	<u></u>	HLFN in KNOC 2009
Whitefish	Coregonus clupeaformis	Region (harvesting)	Food	Cenovus 2013, Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
	25. egonas etapearonnis	Christina Lake and its surrounding rivers/creeks		HLFN in KNOC 2009



Species			Use – Food, Medicine,	
Common Name	Scientific Name	Location (Harvesting, Habitat, Other)	Cultural/Spiritual, Domestic, Other	Reference
		Upland areas surrounding Bourque Lake, May Lake and Marie Lake		CLFN in Imperial 2002; FMFN in Birch Mountain 2006;
		Martineau River		CLFN in Imperial 2002
Fish generally		Along Wiau River to Clyde Lake		HLFN in Cenovus 2013
		In the vicinity of Ipiatik Lake and Big Muskeg Lake		HLFN in Cenovus 2013
		Christina Lake and its surrounding rivers/creeks		HLFN in KNOC 2009; WLFN in CNRL 2012
		Grist Lake, Kirby Lake and Winefred Lake		WLFN in CNRL 2012

Note:

¹ Alberta historical fish capture information on the Fish and Wildlife Internet Mapping tool indicate that arctic grayling, bull trout and goldeye do not occur in the project area.



Vegetation Harvested

Species		Location (Harvesting,	Use – Food, Medicine,	
Common Name	Scientific Name	Habitat, Other)	Cultural/Spiritual, Domestic, Other	Reference
Trees/Shrubs				
Acorns ¹	Quercus macrocarpa	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Aspen poplar	Populus tremuloides	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Balsam fir	Abies balsamea	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; FMFN in Birch Mountain 2006; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Black poplar (Balsam poplar)	Populus balsamifera	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Black spruce	Picea mariana	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; FMFN in Birch Mountain 2006; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Jack pine	Pinus banksiana	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Mountain ash ²	Sorbus scopulina	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Wood 2018a in Devon Pike 2
Pine	Pinus banksiana	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Red Osier dogwood	Cornus stolonifera	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Red birch (bog birch)	Betula pumila/Betula glandulosa	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
White birch/Alaska white birch	Betula papyrifera/Betula neolaskana	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Wood 2018a,b in Devon Pike 2
White spruce	Picea glauca	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Willow	Salix spp.	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Fungus			Not identified	



Species		Location (Harvesting,	Use – Food, Medicine,	
Common Name	Scientific Name	Habitat, Other)	Cultural/Spiritual, Domestic, Other	Reference
Puff balls	Lycoperdon spp.	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Honey mushrooms	Armillariella mellea	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Wood 2018a,b in Devon Pike 2
Morel mushrooms	Morchella elata	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Wood 2018a,b in Devon Pike 2
Oyster mushrooms	Pleurotus spp.	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Wood 2018a,b in Devon Pike 2
Pine mushrooms	Tricholoma magnivelare	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Wood 2018a,b in Devon Pike 2
Milkcap mushrooms	Lactarius deliciosus	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Wood 2018a,b in Devon Pike 2
Willow fungus (diamond willow fungus)	Trametes suaveolens	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Wood 2018a,b in Devon Pike 2
Berries			•	
Blackberry ³	Rubus fruticosus	Region (harvesting)		Cenovus 2013; CNRL 2012; Connacher 2010
Black currant	Ribes lacustre, R. americanum	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010: Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Blueberry	Vaccinium myrtilloides	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
	,	High ground west of Big Muskeg Lake	Not identified	HLFN in CNRL 2012
		Areas surrounding Christina Lake	Not identified	HLFN in KNOC 2009
Bog cranberry		Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
	Vaccinium vitis-idaea	High ground west of Big Muskeg Lake	Not identified	HLFN in CNRL 2012
		Areas surrounding Christina Lake	Not identified	HLFN in KNOC 2009
Bunchberry	Cornus canadensis	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010



Species		Location (Harvesting,	Use – Food, Medicine,	
Common Name	Scientific Name	Habitat, Other)	Cultural/Spiritual, Domestic, Other	Reference
Chokecherry	Prunus virginiania	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Cloudberry	Rubus chamaemorus	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Dewberry	Rubus pubescens	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Dwarf raspberry	Rubus arcticus	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006
Gooseberry	Ribes oxyacanthoid es hirtellum	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Hazelnut	Corylus cornuta	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
High bush cranberry	Viburnum opulus	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Wood 2018a,b in Devon Pike 2
Kinnikinnick (bearberry)	Arctostaphylos uva-ursi	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Logan berries ⁴	Rubus loganobaccus	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Low bush cranberries	Viburnum edule	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Miniature bog cranberry	Ocycoccus microcarpus	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Wood 2018a,b in Devon Pike 2
Red currant	Ribes triste	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006
Red osier dogwood (mooseberry)	Cornus stolonifera	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Pin Cherry	Prunus pennsylvanica	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2



Sp	ecies	Location (Harvesting, Habitat Other) Cultural/Spiritua	Use – Food, Medicine,	
Common Name	Scientific Name		Cultural/Spiritual, Domestic, Other	Reference
Raspberry	Rubus idaeus	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Rosehip	Rosa acicularis, Rosa woodsii	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Saskatoon berry	Amelanchier alnifolia	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
		High ground west of Big Muskeg Lake	Not identified	HLFN in CNRL 2012
Strawberry	Fragaria virginiana/Fragaria vesca	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon, Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
		High ground west of Big Muskeg Lake	Not identified	HLFN in CNRL 2012
Other Plants				
Arrow-leaved coltsfoot (moose ears)	Petasites frigidus	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Chamomile ⁵	Matricaria recutita	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Common cattail	Typha latifolia	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Common pink wintergreen	Pyrola asarifolia	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Sow thistle	Sonchus asper, S. arvensis, S. uliginosum, and S oleraceous	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Red- seeded dandelion ⁶	T. ceratophorum	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Fiddleheads (ostrich fern)	Matteuccia struthiopteris	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Fireweed	Epilobium angustifolium	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Frog box	Sarracenia purpure	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Harebell (bluebell)	Campanula rotundifolia	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Horsetail	Equisetum spp.	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010



Species		Location (Harvesting,	Use – Food, Medicine,	
Common Name	Scientific Name	Habitat, Other)	Cultural/Spiritual, Domestic, Other	Reference
Labrador tea (muskeg tea)	Ledum groenlandicum	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Lichen (caribou lichen)	Cladonaa spp.	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Wood 2018a in Devon Pike 2 Application; Wood 2018b in Devon Pike 2
Lily pad	Nuphar lutea	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Mint	Mentha arvensis	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Stinging nettle	Urtica dioica	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006
Pitcher plants	Sarracenia purpurea	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Wood 2018a,b in Devon Pike 2
Raspberry root	Rubus idaeus	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Rat root (sweet flag)	Acorus americanus	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010; Wood 2018a,b in Devon Pike 2
Reindeer lichen	Cladonia spp.	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
Saskatoon	Amelanchier alnifolia	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon, Jackfish 2, 2006; Devon Jackfish 3, 2010
Showy aster	Eurybia conspicuous	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006; Devon Jackfish 3, 2010
Sweetgrass	Hierochloe hirta ssp arctica	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Wood 2018a,b in Devon Pike 2
Valerian	Valeriana dioica	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
White wintergreen	P. chlorantha/P. minor	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010
White yarrow (white flower, whitestern flower)	Achillea millefolioum	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010; Devon Jackfish 2, 2006
Wild onion	Allium schoenoprasum	Region (harvesting)	Not identified	Cenovus 2013; CNRL 2012; Connacher 2010



Species		Location (Harvesting,	Use – Food, Medicine,		
Common Name	Scientific Name	Habitat, Other)	Cultural/Spiritual, Domestic, Other	Reference	
Plants generally		Upland areas surrounding Bourque Lake, May Lake and Marie Lake	Not identified	CLFN in Imperial 2002	
		Hunting corridor between Wiau Lake and Christina Lake	Not identified	HLFN in Cenovus 2013	
		Areas surrounding Big Muskeg Lake and Christina Lake	Not identified	HLFN in Cenovus 2013	
		High ground west of Big Muskeg Lake	Not identified	HLFN in Cenovus 2013	

Notes:

- Do not grow in this area except when planted.
- Uncommon in this area.
- Horticultural species typically found in gardens. Scientific studies have not confirmed the presence of this species in Alberta.
- ^{5, 6} Non-native weed species.



References:

- Canadian Natural Resources Limited (CNRL). 2012. *Grouse In-situ Oil Sands Project*. Section 16: Traditional Land Use.
- Cenovus FCCL Ltd. (Cenovus). 2013. *Christina Lake Thermal Project, Phase H and Eastern Expansion*. Appendix 6-I: Traditional Land Use Baseline Report.
- Connacher. 2010. *Traditional Ecological Knowledge and Land Use (TEK-TLU)*, Appendix 7. Great Divide SAGD Expansion Project.
- Devon ARL Corporation. 2006. *Traditional Resource Use and Traditional Ecological Knowledge*. Application for the Jackfish 2 Project. Prepared by AMEC Earth & Environmental. On file with author. Calgary, AB. Available at ftp.gov.ab.ca/env/fs/eia/.
- Devon NEC Corporation. 2010. *Traditional Resource Use and Traditional Ecological Knowledge*. Application for the Jackfish 3 Project. Prepared by AMEC Environment & Infrastructure. On file with author. Calgary, AB. Available at ftp.gov.ab.ca/env/fs/eia/.
- Devon NEC Corporation. 2012. *Traditional Land Use and Traditional Environmental Knowledge*. Application for the Pike 1 Project. Prepared by Stantec. On file with author. Calgary, AB. Available at ftp.gov.ab.ca/env/fs/eia/.
- Imperial Oil Resources (IOR). 2002. *Nabiye and Mahihkan North Expansion Project*. Volume 3, Part 2, section 13: Traditional Ecological Knowledge and Land Use.
- Imperial Oil Resources Limited (Imperial). 2016. Application for the Cold Lake Expansion Project. Volume 2: EIA-Section 15. Prepared by AMEC Foster Wheeler. On file with author. Calgary, AB. Available at ftp.gov.ab.ca/env/fs/eia/
- Kehewin Cree Nation Peacekeepers (KCNP). 2012. *Traditional Practices, Historical and Current Occupancy, and Kehewin Cree Nation Treaty Impact Assessment*. Prepared for the Enbridge Northern Gateway Project.
- Korea National Oil Corporation (KNOC). 2009. *Traditional Land Use and Traditional Ecological Knowledge,*Section 16.0. Application for Approval of the BlackGold Expansion Project. Volume 2 –

 Environmental Effect Assessment.
- Wood Environment & Infrastructure Solutions (Wood). 2018a. Fort McMurray #468 First Nation Traditional Land Use Study for the Devon Pike 2 Project. Prepared for Fort McMurray #468 First Nation. Calgary, AB.
- Wood Environment & Infrastructure Solutions (Wood). 2018b. Saddle Lake Cree Nation Traditional Land
 Use Study for the Devon Pike 2 Project. Prepared for Saddle Lake Cree Nation. Calgary, AB.



Appendix K2

Concerns Considered/Integration



Table K2: Traditional Use Concerns Addressed by Devon Applications

Aboriginal Input	Devon Mitigation Response/Community Mitigation Suggestion	Integration in Prior Devon Applications	Integration for Pike 2 Project
How will Devon respect and protect Aboriginal peoples' traditional way of life generally, and, specifically with respect to berry patches and medicinal plants?	 Devon continually works with First Nation and Métis representatives to address historical resources and traditional land use (TLU). The communities share their knowledge through consultation meetings and by actively participating in field work. This process has continued for the Project with the early planning for TLU studies. Devon offers funding to various Aboriginal communities to engage in TLU studies in a manner determined by communities. The method in which Devon can use this information in Project planning is determined by each individual community, under the banner of a confidentiality agreement. In order to maintain key traditional resource pockets within the larger landscape for future generations, impacts to key plant resource areas will be mitigated through avoidance and advanced harvesting with interested communities, where feasible. 	Pike 1, Vol. 1, Table 5.4-2 Jackfish 3, Vol. 2, Section 14.7.2	Mitigation for impacts to key plant resource areas in Vol. 2, Table 11.6-1 (mitigations) Vol. 2, Table 15.7-1 Vol. 1, Table 5.5-1
How will Devon generally respect and protect Aboriginal peoples' traditional lifestyle and culture?	 Devon developed an Aboriginal Relations Policy, which is to be adhered to by all employees and contractors working on the Project. The Policy defines Devon's values, beliefs and expectations. Devon has supported community cultural events to help preserve aspects of Aboriginal culture. Devon has provided TLUs funding, which positions the communities to capture historical use of the land that was typically retained through primarily oral means. Devon will continue to work with local communities to identify opportunities to share both scientific and traditional knowledge with youth and Elders. Devon continues to work with Elder and youth groups as defined by the communities. 	Pike 1, Vol. 1, Table 5.4-2	The response relative to employing local field assistants for knowledge sharing is indicated in Vol. 2, Section 11.4.2 Vol. 2, Table 15.7-1 Vol. 1, Table 5.5-1



Aboriginal Input	Devon Mitigation Response/Community Mitigation Suggestion	Integration in Prior Devon Applications	Integration for Pike 2 Project
How will Devon generally respect and protect Aboriginal peoples' traditional lifestyle and culture? (cont'd)	 Local field assistants have been hired to work with the environmental consultants collecting baseline environmental information for the Project, providing valuable insight and knowledge held by local Aboriginal community members. Devon will continue to hire local field assistants for ongoing environmental requirements during the construction and operations phases of the Project. Devon recognizes the importance of the cultural aspect of working in this area and will continue to request Elders' involvement, participation and guidance in key milestone activities, such as ground blessing ceremonies, before initiating ground disturbance activities. 		
How will Devon provide space to carry out cultural/spiritual activities without disturbance?	 Devon will continue to respect cultural/spiritual activities by ensuring access is not restricted to the extent possible. Additionally, Devon has worked with certain groups to ensure those carrying out traditional activities in the area have access to Devon safety personnel in the event of an emergency. 	Jackfish 1, Vol. 2, Table 14.2 Jackfish 2, Vol. 2, Table 14.2 Jackfish 3, Vol. 2, Table 14.2	Vol. 2, Table 15.7-1 Vol. 1, Table 5.5-1
What will Devon do to address changes to the traditional economy?	 Devon has supported community cultural events to help preserve aspects of Aboriginal culture. Devon will continue to work with local communities to identify opportunities to share both scientific and traditional knowledge with youth and Elders. Local field assistants have been hired to work with the environmental consultants collecting baseline environmental information for projects. 	Jackfish 3, Vol. 2, Table 14.2	Vol. 2, Section 18.0 Vol. 1, Table 5.5-1
How will Devon ensure that TEK is incorporated into Project planning?	Through the cumulative constraints planning process, Devon incorporates traditional ecological knowledge into Project planning and through the use of constraints mapping, identifies and avoids, where practicable, areas of traditional importance.	Jackfish 3, Vol. 2, Table 14.2	Vol. 2, Table 15.7-1 Vol. 1, Table 5.5-1



Aboriginal Input	Devon Mitigation Response/Community Mitigation Suggestion	Integration in Prior Devon Applications	Integration for Pike 2 Project
Concern for the occurrence of cultural assimilation.	 Devon will continue to work with resource management agencies, companies active in the area, and Aboriginal and local communities to identify, understand and sustain community traditional resource use while accommodating industrial activity in the shared landscape. Devon has supported community cultural events to help preserve aspects of Aboriginal culture. Devon will continue to work with local communities to identify opportunities to share both scientific and traditional knowledge with youth and Elders. Devon recognizes the importance of the cultural aspect of working in this area and will continue to request Elders' involvement, participation and guidance in key milestone activities, such as ground blessing ceremonies, before initiating ground disturbance activities. 	Jackfish 3, Vol. 2, Table 14.2	Vol. 2, Table 15.7-1 Vol. 1, Section 5.3 Vol. 1, Table 5.5-1
What will Devon do to reduce Project impacts on wildlife?	 Devon has developed numerous mitigations to prevent potential impacts to wildlife as described within Volume 2, Section 12.0. Some of the primary mitigations to be applied for this purpose across the Project include: a constraints mapping process was used to identify and avoid, where possible, areas of important habitat in the siting of Project facilities; facilities will be designed to reduce loss or alteration of habitat by minimizing the Project footprint to the extent possible, and progressive reclamation will be employed as the bitumen resource is developed; clearing activities will be restricted from 01 May through 15 August annually to protect songbird habitat, unless authorized in writing by the inspector; and Devon has been monitoring wildlife in the region since 2002 and will continue with this well-established program. Devon's strategies to facilitate wildlife movement include: minimizing the linear extent of aboveground pipelines; designing the aboveground pipeline systems to facilitate under-pipe crossings by wildlife; and building pipe crossing structures for wildlife where monitoring indicates they would be most effective. 	Pike 1, Vol. 1, Table 5.4-2	Mitigation for facilities design noted in Vol. 2, Table 11.6-1 Vol. 2, Section 12.6 Vol. 1, Table 5.5-1



Aboriginal Input	Devon Mitigation Response/Community Mitigation Suggestion	Integration in Prior Devon Applications	Integration for Pike 2 Project
What will Devon do to reduce Project impacts on wildlife? (cont'd)	 Mitigation for water birds and process ponds includes minimizing the area of open-water process ponds and implementing deterrents to keep birds off the ponds. Speed limits will be established and enforced to reduce the potential for vehicle-wildlife collisions. Devon will continue to fund the Alberta Biodiversity Monitoring Institute (ABMI) through its levy for the joint Albert Environment and Parks/Environment and Climate Change Canada (AEP/ECCC) Oil Sands Monitoring Program. Devon will continue to participate in regional wildlife monitoring planning initiatives such as Canada's Oil Sands Innovation Alliance (COSIA). This is an industry organization working to advance a regional terrestrial monitoring program. Devon leads the Regional Industry Caribou Collaboration and will continue to work on the integration of industrial activity with the management and conservation of woodland caribou and their habitat. 		
How will the Project affect wildlife with respect to local trapping?	 Devon will ensure local trapline permit holders will continue to have access to their traplines within the Project Area. Devon will work with local trapline permit holders to mitigate impacts to traditional trapping activities. 	Pike 1, Vol. 1, Table 5.4-2	Vol. 2, Section 12.6 Vol. 1, Table 5.5-1
How will Devon manage access to the Project area?	 Devon will gate the Project central processing facility (CPF) for public safety. Devon will participate in any access management planning process that occurs within applicable sub-regions of the larger Lower Athabasca planning region. Devon is currently working to restore unneeded cutlines back to habitat for woodland caribou and other species. As access on such lines prevents habitat restoration, cutline restoration will require access limitations. Devon's Aboriginal Relations team has worked with groups to establish an access protocol, which ensures the safety of Devon personnel and sites, while supporting traditional land use. Additionally, the protocol provides opportunities for those exercising traditional activities, access to safety personnel in the event of an emergency. 	Jackfish 3, Vol. 2, Table 14.2	Vol. 2, Section 14.0 Vol. 1, Table 5.5-1



Aboriginal Input	Devon Mitigation Response/Community Mitigation Suggestion	Integration in Prior Devon Applications	Integration for Pike 2 Project
How will Devon manage the increased industrial activity and aboveground facilities associated with the Project that will potentially affect wildlife movement patterns?	 Linear disturbances were bundled into common corridors to reduce total footprint, and habitat fragmentation. Many low impact and conventional seismic lines and winter access routes will restore themselves through natural vegetation recovery. Progressive reclamation of well pads as described in the Conservation and Reclamation Plan (Volume 1, Section 6.0); Constraints planning was used to site the Project footprint in the best manner possible to avoid large blocks of fen wetland, old-growth forests, riparian habitat, and high suitability caribou habitat. Aboveground pipeline wildlife crossing standards will be followed to ensure permeability. 	Pike 1, Vol. 2, Section 14.7.1	Vol. 1, Section 6.0 Vol. 2, Section 12.6.2 Vol. 1, Table 5.5-1
Concern for impacts on highly valued traditional wildlife resources (i.e., moose, fur bearers, waterfowl, squirrels, grouse, rabbits).	 Devon has been monitoring wildlife in the region since 2002 and will continue with this well-established program for the Project. Constraints planning was used to site the Project footprint in the best manner possible to minimize impact to key wildlife habitat. Devon's strategies to facilitate wildlife movement include: minimizing the linear extent of aboveground pipelines; designing the aboveground pipeline systems to facilitate under-pipe crossings by wildlife; and building pipe crossing structures for wildlife where monitoring indicates they would be most effective. Speed limits will be established and enforced to reduce the potential for vehicle-wildlife collisions. Devon provides continued annual financial support for the ABMI through provincial Oil Sands Monitoring Funding. Specifically, Devon has been heavily involved in the development of ABMI's bioacoustic analysis efforts. 	Jackfish 1, Vol. 2, Table 14.2 Jackfish 2, Vol. 2, Table 14.2 Jackfish 3, Vol, 2, Table 14.2	Vol. 2, Section 12.6.2 Vol. 1, Table 5.5-1
Uncertainty whether reclaimed land will support traditionally valued wildlife.	 Reclamation activities will continue progressively through the life of the Project. Learnings will be applied using an adaptive management approach. Devon will use a LiDAR mapping tool to identify candidate reclamation sites and for locating Project footprint. Reclamation is designed to restore pre-disturbance capability for forestry, wildlife, and/or traditional use. 	Jackfish 1, Vol. 2, Table 14.2 Jackfish 2, Vol. 2, Table 14.2 Jackfish 3, Vol, 2, Table 14.2	Vol. 1, Section 6.0 Vol. 2, Section 12.6.2



Aboriginal Input	Devon Mitigation Response/Community Mitigation Suggestion	Integration in Prior Devon Applications	Integration for Pike 2 Project
Uncertainty whether reclaimed land will support	Revegetation will use native shrub and tree species to restore previous ecosite phases.		
traditionally valued wildlife. (cont'd)	Weed control will use a combination of hand-picking, mechanical and chemical methods.		
	Sites with sensitive soils (e.g., highly erodible), potentially unique vegetation conditions (e.g., rare plants), or old growth forest were partially or fully avoided during site/route selection.		
	Construction activities on organic soils will generally occur in winter months while the soils are frozen to minimize impacts to the overall soil system. To the extent possible, construction and other activities will be minimized on wet soils to reduce compaction and long-term damage to the soil and associated wildlife habitat.		
	Devon is committed to supporting caribou range planning including restoration of linear features through a regionally coordinated approach. Multiple species will benefit, including caribou.		
	Revegetate legacy seismic lines to enhance restoration of biodiversity and reduce predation.		
Concern for the Project's effects on caribou including seismic clearing of lowland habitat areas, development of elevated land preferred by caribou for calving, further linear disturbances	 Devon is committed to supporting caribou range planning including restoration of successional stagnant linear features through a regionally coordinated approach. Multiple species will benefit, including caribou. Constraints planning was used to site the Project footprint in the best manner possible to avoid key wildlife habitat. Aboveground pipeline wildlife crossing standards will be followed to ensure permeability. 	Pike 1, Vol. 2, Section 14.7.1	Vol. 2, Section 12.6.2 Vol. 2, Section 12.6.3
that alter predator prey relationships and overall loss of habitat.	 Combined pipeline/access road corridors will be kept as narrow as possible. Devon will continue to participate in regional wildlife monitoring planning initiatives such as COSIA. This is an industry organization working to advance a regional terrestrial monitoring program. 		
	Devon leads the Regional Industry Caribou Collaboration and will continue to work on the integration of industrial activity with the management and conservation of woodland caribou and their habitat.		



Aboriginal Input	Devon Mitigation Response/Community Mitigation Suggestion	Integration in Prior Devon Applications	Integration for Pike 2 Project
Concern that there is restricted access to the local study area and portions of the RSA combined with increased industrial activity in the Project Area making it impractical to use these locations for traditional activities.	 Devon has in the past and continues to work with communities to arrange for access to hunting areas within the Project footprint within the parameters required for safety purposes. Through discussions with community members, access will be facilitated in order to limit the potential effects of restricted access on traditional activities. Devon will participate in any access management planning process that occurs within applicable sub-regions of the larger Lower Athabasca planning region. 	Jackfish 3, Vol. 2, Section 14.7 Pike 1, Vol. 2, Section 14.7.1	Vol. 2, Section 14.0
Concern for decreasing water quality and quantity resulting in a decrease in fish health and abundance.	 Devon will use existing disturbed areas, aligning with existing corridors and shared common rights-of-way, shortest distances, and minimizing the watercourse crossings, where practical. Pipeline crossings will be installed in accordance with the AEP Code of Practice for Pipelines and Telecommunication Lines Crossing a Water Body. As such, site-specific fisheries assessments will be required at each crossing prior to construction Best management practices (BMP) will be implemented to further minimize effects to fisheries and aquatic resources (e.g., Alberta Transportation 2009; CAPP et al. 2012). BMPs, where practical, will include the following: appropriate erosion control measures will be installed and maintained around all riparian disturbance areas along rights-of-way, until disturbed natural vegetation is returned or becomes re-established by seeding; ditch runoff will be diverted into well-vegetated areas; monitoring will confirm effective implementation of mitigation measures; a post-construction monitoring program will be implemented for at least one growing season and will include inspection of each stream crossing to assess bank stability, erosion control measures, vegetation regrowth, and stream channel conditions. Noted problems will be repaired as required; and Devon will preferentially construct well pads and roads under frozen conditions. 	Pike 1, Vol. 2, Section 14.7.1 Jackfish 3, Vol. 2, Table 14.2 Jackfish 2, Vol. 2, Table 14.2 Jackfish 1, Vol. 2, Table 14.2	Vol. 2, Section 9.6.1



Aboriginal Input	Devon Mitigation Response/Community Mitigation Suggestion	Integration in Prior Devon Applications	Integration for Pike 2 Project
Concern of Project effects on local potable water quantity and quality.	Devon plans to source potable water from the Ethel Lake Aquifer from an existing water well at 14-09-075-06 W4M that is licensed up to a maximum daily rate of 221.5 m³/d (Licence Number 00296460-01-00).	Jackfish 1, Vol. 2, Table 14.2 Jackfish 2, Vol. 2, Table 14.2 Jackfish 3, Vol. 2, Table 14.2	Vol. 2, Section 8.6 Vol. 2, Section 6.6.2
Concern that underground Project activities are upsetting the sensitive underground aquifers thereby negatively affecting water quality above ground.	Devon will monitor for thermally-mobilized constituents near each production well and, if detected, the plume will be monitored. Mitigation of the thermally-mobilized constituents would be implemented, if necessary, to prevent unacceptable impacts to potential receptors. This approach is in accordance with the Assessment of the AEP Directive titled Assessment of Thermally-Mobilized Constituents in Groundwater for Thermal In Situ Operations (AEP 2018).	Pike 1, Vol2, Section 14.7.1	Vol. 2, Section 8.6
Will Devon's reclamation plan include traditional use plant species in disturbed areas and address variances in vegetation species from the pre-disturbance landscape and the reclaimed landscape?	 Devon will be reclaiming disturbed areas to meet provincial requirements and will also engage with local Aboriginal communities during the reclamation program to gain an understanding of Aboriginal values that could be incorporated in the reclamation plan. Devon will document where traditionally used plant species are removed (e.g., blueberry) and will include these species in site-specific reclamation plans where possible Devon will adhere to the reclamation planning and monitoring requirements of the anticipated Project Environmental Protection and Enhancement Act (EPEA) Approval. 	Pike 1, Vol. 2, Section 14.7.1 Jackfish 3, Vol. 2, Section 14.7.3	These mitigations added to Vol. 2, Section 11.6.4.4 Vol. 2, Table 15.7-1 Vol. 1, Table 5.5-1
Concern for damage to muskeg and peat in the local study area.	Devon supports research related to conservation and reclamation practices through participation in COSIA, including studies conducted on the Jackfish lands regarding recovery of oil sand exploration sites. Devon is also a member of the Industrial Footprint Reduction Options Group (iFROG), another collaboration under COSIA of in-situ oil sands producers working to fund and disseminate reclamation research learnings.	Pike 1, Vol. 2, Section 14.7.1	Vol. 2 Section 11.6.3.2 Vol. 2, Table 15.7-1
Concern for sensitive riparian zones potentially cleared for seismic activity.	Riparian zones will be protected and construction activities will be monitored to prevent damage to these sensitive locations.	Pike 1, Vol. 2, Section 14.7.1	Vol. 1, Section 6.3.3 Vol. 1, Section 6.6.4



Aboriginal Input	Devon Mitigation Response/Community Mitigation Suggestion	Integration in Prior Devon Applications	Integration for Pike 2 Project
Concern for the identification of several important traditionally used plants and how they will be protected.	 Impacts to key plant resource areas will be mitigated through avoidance wherever possible through application of constraints planning. Direct development impacts to areas with potential blueberry, old growth forest, lichen and similar TLU habitats will be minimized wherever practical in order to maintain key traditional resource pockets within the larger landscape for future regeneration. 		Vol. 2, Table 11.6-1 (mitigations) Vol. 2, Table 15.7-1
Concern that industrial products and packaging, construction compounds, metal culverts and oil for Project development will result in waste and contamination of the area	 Devon will manage its operations in accordance with Devon's waste management plan, which utilizes appropriate containment measures, and includes recycling and appropriate disposal of waste. Devon will implement a spill management plan for the Project. 	Pike 1, Vol. 2, Section 14.7.1	Vol. 1, Sections 2.10.2 and 2.12.3 Vol. 1, Sections 6.6.5 and 6.6.10 Vol. 2, Section 8.6 Vol. 2, Sections 10.6.3 and 10.6.8
Concern that air pollution from the Project will result in contamination of waterfowl and traditional plant resources used by Aboriginal community members.	 Devon plans to mitigate this concern through the following: design to allow sufficient dispersion; operate to allow maximum combustion efficiency; a sulphur removal unit or chemical scavengers to reduce sulphur emissions; efficiencies to reduce fuel use; control of fugitive plant and field emissions; vent gas is collected rather than being emitted to the atmosphere; and minimize venting and flaring. 	Jackfish 1, Vol. 2, Table 14.2 Jackfish 2, Vol. 2, Table 14.2 Jackfish 3, Vol. 2, Table 14.2 Pike 1, Vol. 2, Section 14.7.1	Vol. 2, Sections 4.3.1 and 4.9

References:

Alberta Environment and Parks (AEP). 2018. Assessment of Thermally-Mobilized Constituents in Groundwater for Thermal In Situ Operations. AEP, Water Quality, 2018, No. 1. Edmonton, AB. June 2018. 24 pp.

Alberta Transportation. 2009. Fish Habitat Manual – Guidelines and Procedures for Watercourse Crossings in Alberta. Alberta Transportation, Edmonton, AB.

Canadian Association of Petroleum Producers (CAPP), Canadian Energy Pipeline Association and Canadian Gas Association. 2012. *Pipeline Associated Watercourse Crossings*. Prepared by TERA Environmental Consultants. Calgary, AB.