

APPENDIX L
VEGETATION AND WETLANDS

SPRINGBANK OFF-STREAM RESERVOIR PROJECT
ENVIRONMENTAL IMPACT ASSESSMENT
VOLUME 4: APPENDICES
APPENDIX L: VEGETATION AND WETLANDS

Attachment 10A Vegetation and Wetlands Supplementary Data
March 2018

Attachment 10A VEGETATION AND WETLANDS
SUPPLEMENTARY DATA

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10A.1 SPECIES OF MANAGEMENT CONCERN DESCRIPTIONS

Cyphelium notarisii (soot lichen)

Soot lichen is a greenish yellow crustose lichen which usually grows on pine wood buildings, benches and fences. The black fruiting bodies leave a distinctive sooty residue on fingers after rubbing the lichen (Nash *et al.* 2002).

Ribes inerme (mountain gooseberry)

Mountain gooseberry is a low perennial shrub, which can be found in montane woods. Leaves are alternate, lobed, and covered with grey hairs (Moss 1983). The flowers of mountain gooseberry are clustered and bell-shaped. This species' older stems are whitish and often without spines located at the point where the leaves or stems ascend (Moss 1983).

Rorripa curvipes (blunt-leaved watercress)

Blunt-leaved watercress is a tufted annual less than 10 cm tall with hairless, recumbent stems up to 50 cm long. Leaves are alternate and pinately divided with scattered hairs on the upper leaf surface. Basal leaves grow to 13 cm long and 3 cm wide, stem leaves smaller and slightly clasping. Flowers are short-stalked, 2 - 3 mm across and yellow. The fruits are hairless pods, constricted in the middle. Typically found on mud flats, shores, stream beds, wet meadows and roadsides (Kershaw *et al.* 2001). It is ranked as S3 by Alberta Conservation Information Management System (ACIMS) (2016).

Rorripa tenerrima (slender cress)

Slender cress is distinguished from blunt leaved watercress (*R. curvipes*) by the fruit pods which are cone shaped and not constricted in the middle. The pods are also covered in rough papillae (a tiny, wart-like projection). Typically found on moist, sandy, usually alkaline sites (Kershaw *et al.* 2001). It is ranked as S3 by ACIMS (2016).

Trichophorum pumilum (dwarf bulrush)

Dwarf bulrush is a rhizotomous perennial with smooth, round stems to 17 centimetres (cm) tall. Blades are slender sheaths to 15 mm long. Flowers are egg-shaped spikelets with brown scales and a green midvein borne at the stem tip. Bracts are blunt tipped, less than half the length of the spikelet and lacking bristles. Produces dark brown to black achenes which are smooth with a pointed tip. Typically found in calcareous fens (Kershaw *et al.* 2001). It is ranked as S3 by ACIMS (2016).

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10A.2 PLANT SPECIES OBSERVED WITHIN THE PDA

Table 10A-1 Comprehensive List of Species Observed within the Project Disturbance Area

Plant Form	Scientific Name (ITIS) ^a	Common Name (ACIMS) ^b	ACIMS Rank ^b	Tracked/ Watched (ACIMS) ^b	Native/Exotic (ACIMS) ^b	Alberta General Status ^c	Invasive Species ^d
Fern or Fern Allies	<i>Cystopteris fragilis</i>	fragile bladder fern	S5	-	Native	-	-
Fern or Fern Allies	<i>Woodsia oregana</i>	Oregon woodsia	S3	-	Native	-	-
Forb	<i>Achillea millefolium</i>	common yarrow	S5	-	Native	Secure	-
Forb	<i>Actaea rubra</i>	red and white baneberry	S5	-	Native	Secure	-
Forb	<i>Agoseris glauca</i>	yellow false dandelion	S5	-	Native	Secure	-
Forb	<i>Allium cernuum</i>	nodding onion	S5	-	Native	Secure	-
Forb	<i>Androsace septentrionalis</i>	northern fairy candelabra	S5	-	Native	Secure	-
Forb	<i>Anemone canadensis</i>	Canada anemone	S5	-	Native	Secure	-
Forb	<i>Anemone multifida</i>	cut-leaved anemone	S5	-	Native	Secure	-
Forb	<i>Anemone patens</i>	prairie crocus	S5	-	Native	Secure	-
Forb	<i>Anemone patens</i> var. <i>multifida</i>	prairie crocus	S5	-	Native	-	-
Forb	<i>Antennaria anaphaloides</i>	tall everlasting	S4	-	Native	Secure	-

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Forb	<i>Antennaria microphylla</i>	littleleaf pussytoes	S5	-	Native	Undetermined	-
Forb	<i>Antennaria neglecta</i>	broad-leaved everlasting	S5	-	Native	Undetermined	-
Forb	<i>Antennaria parvifolia</i>	small-leaved everlasting	S5	-	Native	Secure	-
Forb	<i>Antennaria pulcherrima</i>	showy everlasting	S4	-	Native	Secure	-
Forb	<i>Apocynum androsaemifolium</i>	spreading dogbane	S5	-	Native	Secure	-
Forb	<i>Arabis pycnocarpa</i>	hairy rockcress	S5	-	Native	-	-
Forb	<i>Arnica fulgens</i>	shining arnica	S4	-	Native	Secure	-
Forb	<i>Arnica latifolia</i>	broad-leaved arnica	S4	-	Native	Secure	-
Forb	<i>Artemisia absinthium</i>	absinthe wormwood	SNA	-	Exotic	-	ü
Forb	<i>Artemisia biennis</i>	biennial sagewort	S5	-	Native	-	-
Forb	<i>Artemisia campestris</i>	plains wormwood	S5	-	Native	-	-
Forb	<i>Artemisia frigida</i>	pasture sagewort	S5	-	Native	-	-
Forb	<i>Artemisia ludoviciana</i>	prairie sagewort	S5	-	Native	-	-
Forb	<i>Astragalus eucosmus</i>	elegant milk-vetch	S4	-	Native	-	-

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Forb	<i>Astragalus laxmannii</i> var. <i>robustior</i>	ascending purple milk-vetch	S5	-	Native	-	-
Forb	<i>Callitriche verna</i>	vernal water-starwort	S5	-	Native	-	-
Forb	<i>Campanula rotundifolia</i>	harebell	S5	-	Native	-	-
Forb	<i>Carum carvi</i>	caraway	SNA	-	Exotic	-	ü
Forb	<i>Castilleja miniata</i>	common red paintbrush	S5	-	Native	-	-
Forb	<i>Cerastium arvense</i>	field mouse-ear chickweed	S5	-	Native	-	-
Forb	<i>Cerastium fontanum</i> ssp. <i>vulgare</i>	common mouse-ear chickweed	SNA	-	Exotic	-	-
Forb	<i>Chamerion angustifolium</i>	common fireweed	S5	-	Native	-	-
Forb	<i>Chamerion latifolium</i>	broad-leaved fireweed	S4	-	Native	-	-
Forb	<i>Chenopodium album</i>	lamb's-quarters	SNA	-	Exotic	-	ü
Forb	<i>Chenopodium salinum</i>	oak-leaved goosefoot	S5	-	Native	-	-
Forb	<i>Cicuta maculata</i>	water-hemlock	S5	-	Native	-	-
Forb	<i>Cirsium arvense</i>	creeping thistle	SNA	-	Exotic	-	ü

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Forb	<i>Cirsium drummondii</i>	Drummond's thistle	S5	-	Native	-	-
Forb	<i>Cirsium flodmanii</i>	Flodman's thistle	S5	-	Native	-	-
Forb	<i>Comandra umbellata</i>	common comandra	S5	-	Native	-	-
Forb	<i>Convolvulus arvensis</i>	field bindweed	SNA	-	Exotic	-	ü
Forb	<i>Cornus canadensis</i>	bunchberry	S5	-	Native	-	-
Forb	<i>Crepis tectorum</i>	annual hawk's-beard	SNA	-	Exotic	-	ü
Forb	<i>Cynoglossum officinale</i>	hound's-tongue	SNA	-	Exotic	-	ü
Forb	<i>Cypripedium passerinum</i>	sparrow's-egg lady's-slipper	S5?	-	Native	-	-
Forb	<i>Descurainia sophia</i>	flixweed	SNA	-	Exotic	-	ü
Forb	<i>Dodecatheon pulchellum</i>	saline shooting star	S5	-	Native	-	-
Forb	<i>Dryas drummondii</i>	yellow mountain avens	S5	-	Native	-	-
Forb	<i>Epilobium ciliatum</i>	northern willowherb	S5	-	Native	-	-
Forb	<i>Equisetum arvense</i>	common horsetail	S5	-	Native	-	-
Forb	<i>Equisetum hyemale</i>	common scouring-rush	S5	-	Native	-	-

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Forb	<i>Equisetum laevigatum</i>	smooth scouring-rush	S3	-	Native	-	-
Forb	<i>Equisetum pratense</i>	meadow horsetail	S5	-	Native	-	-
Forb	<i>Equisetum variegatum</i>	variegated horsetail	S5	-	Native	-	-
Forb	<i>Erigeron glabellus</i>	smooth fleabane	S5	-	Native	-	-
Forb	<i>Eriogonum flavum</i>	yellow umbrella-plant	S5	-	Native	-	-
Forb	<i>Erucastrum gallicum</i>	dog mustard	SNA	-	Exotic	-	ü
Forb	<i>Erysimum inconspicuum</i>	small-flowered rocket	S5	-	Native	-	-
Forb	<i>Fallopia convolvulus</i>	wild buckwheat	SNA	-	Exotic	-	-
Forb	<i>Fragaria virginiana</i>	wild strawberry	S5	-	Native	-	-
Forb	<i>Gaillardia aristata</i>	gaillardia	S5	-	Native	-	-
Forb	<i>Galearis rotundifolia</i>	round-leaved orchid	S5?	-	Native	-	-
Forb	<i>Galeopsis tetrahit</i>	hemp-nettle	SNA	-	Exotic	-	ü
Forb	<i>Galium boreale</i>	northern bedstraw	S5	-	Native	-	-
Forb	<i>Galium triflorum</i>	sweet-scented bedstraw	S5	-	Native	-	-
Forb	<i>Gentiana affinis</i>	prairie gentian	S3	-	Native	-	-



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Forb	<i>Gentianella amarella</i>	felwort	S5	-	Native	-	-
Forb	<i>Geocaulon lividum</i>	northern bastard toadflax	S5	-	Native	-	-
Forb	<i>Geranium richardsonii</i>	wild white geranium	S5	-	Native	-	-
Forb	<i>Geranium viscosissimum</i>	sticky purple geranium	S3	-	Native	-	-
Forb	<i>Geum aleppicum</i>	yellow avens	S5	-	Native	-	-
Forb	<i>Geum macrophyllum</i>	large-leaved yellow avens	S5	-	Native	-	-
Forb	<i>Geum triflorum</i>	three-flowered avens	S5	-	Native	-	-
Forb	<i>Glycyrrhiza lepidota</i>	wild licorice	S4	-	Native	-	-
Forb	<i>Hackelia floribunda</i>	large-flowered stickseed	S3	-	Native	-	-
Forb	<i>Hedysarum alpinum</i>	alpine hedysarum	S5	-	Native	-	-
Forb	<i>Hedysarum boreale</i>	northern hedysarum	S5	-	Native	-	-
Forb	<i>Hedysarum sulphurescens</i>	yellow hedysarum	S5	-	Native	-	-
Forb	<i>Heracleum maximum</i>	cow parsnip	S5	-	Native	-	-

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Forb	<i>Hieracium umbellatum</i>	narrow-leaved hawkweed	S5	-	Native	-	-
Forb	<i>Hippuris vulgaris</i>	common mare's-tail	S5	-	Native	-	-
Forb	<i>Lappula squarrosa</i>	bluebur	S5	-	Native	-	-
Forb	<i>Lathyrus ochroleucus</i>	cream-colored vetchling	S5	-	Native	-	-
Forb	<i>Linum lewisii</i>	wild blue flax	S5	-	Native	-	-
Forb	<i>Lomatium macrocarpum</i>	long-fruited wild parsley	S3	-	Native	-	-
Forb	<i>Maianthemum canadense</i>	wild lily-of-the-valley	S5	-	Native	-	-
Forb	<i>Maianthemum stellatum</i>	star-flowered Solomon's-seal	S5	-	Native	-	-
Forb	<i>Medicago sativa</i>	alfalfa	SNA	-	Exotic	-	ü
Forb	<i>Mellilotus alba</i>	white sweet-clover	SNA	-	Exotic	-	ü
Forb	<i>Mellilotus officinalis</i>	yellow sweet-clover	SNA	-	Exotic	-	-
Forb	<i>Mentha arvensis</i>	wild mint	S5	-	Native	-	-
Forb	<i>Mitella nuda</i>	bishop's-cap	S5	-	Native	-	-
Forb	<i>Moehringia lateriflora</i>	blunt-leaved sandwort	S5	-	Native	-	-

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Forb	<i>Monolepis nuttalliana</i>	spear-leaved goosefoot	S5	-	Native	-	-
Forb	<i>Mulgedium pulchellum</i>	common blue lettuce	S5	-	Native	Secure	-
Forb	<i>Myriophyllum sibiricum</i>	spiked water-milfoil	S5	-	Native	-	-
Forb	<i>Myriophyllum verticillatum</i>	water-milfoil	S3	-	Native	-	-
Forb	<i>Orthilia secunda</i>	one-sided wintergreen	S5	-	Native	-	-
Forb	<i>Osmorhiza depauperata</i>	spreading sweet cicely	S5	-	Native	-	-
Forb	<i>Oxytropis deflexa</i>	reflexed locoweed	S5	-	Native	-	-
Forb	<i>Oxytropis monticola</i>	late yellow locoweed	S5	-	Native	-	-
Forb	<i>Oxytropis splendens</i>	showy locoweed	S5	-	Native	-	-
Forb	<i>Packera cana</i>	prairie groundsel	S5	-	Native	-	-
Forb	<i>Packera streptanthifolia</i>	northern ragwort	S4	-	Native	-	-
Forb	<i>Parnassia palustris</i>	northern grass-of-parnassus	S5	-	Native	-	-
Forb	<i>Pedicularis groenlandica</i>	elephant's-head	S5	-	Native	-	-

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Forb	<i>Persicaria amphibia</i>	water smartweed	S5	-	Native	-	-
Forb	<i>Petasites frigidus</i> var. <i>palmatus</i>	palmate-leaved coltsfoot	S5	-	Native	-	-
Forb	<i>Plantago major</i>	common plantain	SNA	-	Exotic	-	ü
Forb	<i>Platanthera huronensis</i>	northern green bog orchid	S5	-	Native	-	-
Forb	<i>Polygala senega</i>	seneca snakeroot	S4	-	Native	-	-
Forb	<i>Polygonum arenastrum</i>	prostrate knotweed	SNA	-	Exotic	-	ü
Forb	<i>Polygonum aviculare</i>	prostrate knotweed	SNA	-	Exotic	-	-
Forb	<i>Potamogeton foliosus</i>	leafy pondweed	S4	-	Native	-	-
Forb	<i>Potamogeton friesii</i>	Fries' pondweed	S4	-	Native	-	-
Forb	<i>Potentilla anserina</i>	silverweed	S5	-	Native	-	-
Forb	<i>Potentilla concinna</i>	early cinquefoil	S4	-	Native	-	-
Forb	<i>Potentilla gracilis</i>	graceful cinquefoil	S5	-	Native	-	-
Forb	<i>Potentilla norvegica</i>	rough cinquefoil	S5	-	Native	-	-
Forb	<i>Primula incana</i>	mealy primrose	S4	-	Native	-	-
Forb	<i>Prunella vulgaris</i>	heal-all	S3	-	Native	-	-
Forb	<i>Prunus virginiana</i>	choke cherry	S5	-	Native	-	-
Forb	<i>Pyrola asarifolia</i>	common pink wintergreen	S5	-	Native	-	-



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Forb	<i>Pyrola chlorantha</i>	greenish-flowered wintergreen	S5	-	Native	-	-
Forb	<i>Ranunculus abortivus</i>	small-flowered buttercup	S4	-	Native	-	-
Forb	<i>Ranunculus acris</i>	tall buttercup	SNA	-	Exotic	-	ü
Forb	<i>Ranunculus aquatilis</i>	large-leaved white water crowfoot	S5	-	Native	-	-
Forb	<i>Ranunculus cardiophyllus</i>	heart-leaved buttercup	S4	-	Native	-	-
Forb	<i>Ranunculus cymbalaria</i>	seaside buttercup	S5	-	Native	-	-
Forb	<i>Ranunculus flammula</i> var. <i>reptans</i>	creeping spearwort	S4	-	Native	-	-
Forb	<i>Ranunculus gmelinii</i>	yellow water crowfoot	S5	-	Native	-	-
Forb	<i>Ranunculus macounii</i>	Macoun's buttercup	S5	-	Native	-	-
Forb	<i>Ranunculus pennsylvanicus</i>	bristly buttercup	S3	-	Native	-	-
Forb	<i>Ranunculus sceleratus</i>	celery-leaved buttercup	S5	-	Native	-	-
Forb	<i>Rheum rhaponticum</i>	false rhubarb	SNA	-	Native	-	-

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Forb	<i>Rorippa curvipes</i>	blunt-leaved watercress	S3	Tracked	Native	-	-
Forb	<i>Rorippa palustris</i>	marsh yellow cress	S5	-	Native	-	-
Forb	<i>Rorippa tenerrima</i>	slender cress	S3	Tracked	Native	-	-
Forb	<i>Rumex crispus</i>	curled dock	SNA	-	Exotic	-	ü
Forb	<i>Rumex occidentalis</i>	western dock	S5	-	Native	-	-
Forb	<i>Rumex triangulivalvis</i>	narrow-leaved dock	S5	-	Native	-	-
Forb	<i>Sagittaria cuneata</i>	arum-leaved arrowhead	S5	-	Native	-	-
Forb	<i>Sanicula marilandica</i>	snakeroot	S4S5	-	Native	-	-
Forb	<i>Scutellaria galericulata</i>	marsh skullcap	S5	-	Native	-	-
Forb	<i>Silene cserei</i>	smooth catchfly	SNA	-	Exotic	-	ü
Forb	<i>Sisyrinchium montanum</i>	common blue-eyed grass	S5	-	Native	-	-
Forb	<i>Sisyrinchium septentrionale</i>	pale blue-eyed grass	S4	-	Native	-	-
Forb	<i>Sium suave</i>	water parsnip	S5	-	Native	-	-
Forb	<i>Solidago altissima</i>	tall goldenrod	S5	-	Native	-	-
Forb	<i>Solidago gigantea</i>	late goldenrod	S5	-	Native	-	-
Forb	<i>Solidago missouriensis</i>	low goldenrod	S5	-	Native	-	-



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Forb	<i>Solidago simplex</i>	sticky goldenrod	S5	-	Native	-	-
Forb	<i>Sonchus arvensis</i>	perennial sow-thistle	SNA	-	Exotic	-	ü
Forb	<i>Sonchus arvensis</i> ssp. <i>uliginosus</i>	perennial sow-thistle	SNA	-	Exotic	-	ü
Forb	<i>Sparganium angustifolium</i>	narrow-leaved bur-reed	S4	-	Native	-	-
Forb	<i>Stachys palustris</i>	marsh hedge-nettle	S5	-	Native	-	-
Forb	<i>Stellaria longipes</i>	long-stalked chickweed	S5	-	Native	-	-
Forb	<i>Stuckenia filiformis</i>	thread-leaved pondweed	S4	-	Native	-	-
Forb	<i>Stuckenia vaginata</i>	large-sheath pondweed	S4	-	Native	-	-
Forb	<i>Symphyotrichum boreale</i>	marsh aster	S5	-	Native	-	-
Forb	<i>Symphyotrichum ciliatum</i>	rayless aster	S4	-	Native	-	-
Forb	<i>Symphyotrichum ciliolatum</i>	Lindley's aster	S5	-	Native	-	-
Forb	<i>Symphyotrichum ericoides</i>	tufted white prairie aster	S5	-	Native	-	-

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Forb	<i>Symphyotrichum falcatum</i>	creeping white prairie aster	S5	-	Native	-	-
Forb	<i>Symphyotrichum laeve</i>	smooth aster	S5	-	Native	-	-
Forb	<i>Symphyotrichum lanceolatum</i>	western willow aster	S5	-	Native	-	-
Forb	<i>Symphyotrichum lanceolatum</i> var. <i>hesperium</i>	western willow aster	S5	-	Native	-	-
Forb	<i>Symphyotrichum puniceum</i>	purple-stemmed aster	S4	-	Native	-	-
Forb	<i>Taraxacum officinale</i>	common dandelion	SNA	-	Exotic	-	ü
Forb	<i>Thalictrum venulosum</i>	veiny meadow rue	S5	-	Native	-	-
Forb	<i>Thermopsis rhombifolia</i>	golden bean	S5	-	Native	-	-
Forb	<i>Thlaspi arvense</i>	stinkweed	SNA	-	Exotic	-	ü
Forb	<i>Tragopogon dubius</i>	common goat's-beard	SNA	-	Exotic	-	ü
Forb	<i>Trifolium hybridum</i>	alsike clover	SNA	-	Exotic	-	ü
Forb	<i>Trifolium pratense</i>	red clover	SNA	-	Exotic	-	ü
Forb	<i>Trifolium repens</i>	white clover	SNA	-	Exotic	-	ü
Forb	<i>Triglochin maritima</i>	seaside arrow-grass	S5	-	Native	-	-



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Forb	<i>Triglochin palustris</i>	slender arrow-grass	S5	-	Native	-	-
Forb	<i>Urtica dioica</i>	common nettle	S5	-	Native	-	-
Forb	<i>Veronica americana</i>	American brooklime	S5	-	Native	-	-
Forb	<i>Veronica peregrina</i>	hairy speedwell	S5	-	Native	-	-
Forb	<i>Vicia americana</i>	wild vetch	S5	-	Native	-	-
Forb	<i>Viola adunca</i>	early blue violet	S5	-	Native	-	-
Forb	<i>Viola canadensis</i>	western Canada violet	S5	-	Native	-	-
Forb	<i>Viola palustris</i>	marsh violet	S4	-	Native	-	-
Forb	<i>Zannichellia palustris</i>	horned pondweed	S3	-	Native	-	-
Forb	<i>Zigadenus elegans</i>	white camas	S5	-	Native	-	-
Forb	<i>Zigadenus venenosus</i>	death camas	S4	-	Native	-	-
Forb	<i>Zizia aptera</i>	heart-leaved Alexanders	S5	-	Native	-	-
Graminoid	<i>Achnatherum richardsonii</i>	Richardson needle grass	S5	-	Native	Secure	-
Graminoid	<i>Agrostis gigantean</i>	giant bentgrass	SNA	-	Exotic	-	-
Graminoid	<i>Agrostis scabra</i>	rough hair grass	S5	-	Native	Secure	-
Graminoid	<i>Agrostis stolonifera</i>	redtop	SNA	-	Exotic	Exotic	ü

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Graminoid	<i>Alopecurus aequalis</i>	short-awned foxtail	S5	-	Native	Secure	-
Graminoid	<i>Alopecurus aequalis</i>	short-awned foxtail	S5	-	Native	Secure	-
Graminoid	<i>Avena sativa</i>	cultivated oat	SNA	-	Exotic	-	-
Graminoid	<i>Avenula hookeri</i>	Hooker's oat grass	S4	-	Native	-	-
Graminoid	<i>Beckmannia syzigachne</i>	slough grass	S5	-	Native	-	-
Graminoid	<i>Bistorta vivipara</i>	alpine bistort	S5	-	Native	-	-
Graminoid	<i>Bromus ciliatus</i>	fringed brome	S3	-	Native	-	-
Graminoid	<i>Bromus inermis</i>	smooth brome	SNA	-	Exotic	-	-
Graminoid	<i>Bromus tectorum</i>	downy chess	SNA	-	Exotic	-	ü
Graminoid	<i>Calamagrostis canadensis</i>	bluejoint	S5	-	Native	-	-
Graminoid	<i>Calamagrostis stricata</i> spp. <i>inexpansa</i>	northern reed grass	S5	-	Native	-	-
Graminoid	<i>Calamovilfa longifolia</i>	sand grass	S5	-	Native	-	-
Graminoid	<i>Carex aquatilis</i>	water sedge	S5	-	Native	-	-
Graminoid	<i>Carex atherodes</i>	awned sedge	S5	-	Native	-	-
Graminoid	<i>Carex capillaris</i>	hair-like sedge	S5	-	Native	-	-
Graminoid	<i>Carex concinna</i>	beautiful sedge	S5	-	Native	-	-

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Graminoid	<i>Carex diandra</i>	two-stamened sedge	S5	-	Native	-	-
Graminoid	<i>Carex douglasii</i>	Douglas sedge	S3	-	Native	-	-
Graminoid	<i>Carex duriuscula</i>	low sedge	S5	-	Native	-	-
Graminoid	<i>Carex eburnea</i>	bristle-leaved sedge	S4	-	Native	-	-
Graminoid	<i>Carex filifolia</i>	thread-leaved sedge	S5	-	Native	-	-
Graminoid	<i>Carex lasiocarpa</i>	hairy-fruited sedge	S4	-	Native	-	-
Graminoid	<i>Carex pellita</i>	woolly sedge	S5	-	Native	-	-
Graminoid	<i>Carex praegracilis</i>	graceful sedge	S5	-	Native	-	-
Graminoid	<i>Carex richardsonii</i>	Richardson's sedge	S4	-	Native	-	-
Graminoid	<i>Carex sartwellii</i>	Sartwell's sedge	S4	-	Native	-	-
Graminoid	<i>Carex scirpoidea</i>	rush-like sedge	S5	-	Native	-	-
Graminoid	<i>Carex simulata</i>	mimic sedge	S3	-	Native	-	-
Graminoid	<i>Carex utriculata</i>	small bottle sedge	S5	-	Native	-	-
Graminoid	<i>Carex viridula</i>	green sedge	S4	-	Native	-	-
Graminoid	<i>Catabrosa aquatica</i>	brook grass	S3	-	Native	-	-
Graminoid	<i>Dactylis glomerata</i>	orchard grass	SNA	-	Exotic	-	ü
Graminoid	<i>Danthonia californica</i>	California oat grass	S5	-	Native	-	-

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Graminoid	<i>Danthonia intermedia</i>	intermediate oat grass	S5	-	Native	-	-
Graminoid	<i>Deschampsia cespitosa</i>	tufted hair grass	S5	-	Native	-	-
Graminoid	<i>Eleocharis acicularis</i>	needle spike-rush	S5	-	Native	-	-
Graminoid	<i>Eleocharis palustris</i>	creeping spike-rush	S5	-	Native	-	-
Graminoid	<i>Elymus lanceolatus</i>	northern wheat grass	S5	-	Native	-	-
Graminoid	<i>Elymus repens</i>	quackgrass	SNA	-	Exotic	-	-
Graminoid	<i>Elymus trachycaulus</i>	slender wheatgrass	S5	-	Native	-	-
Graminoid	<i>Festuca campestris</i>	mountain rough fescue	S5	-	Native	-	-
Graminoid	<i>Festuca saximontana</i>	Rocky Mountain fescue	S5	-	Native	-	-
Graminoid	<i>Glyceria grandis</i>	common tall manna grass	S5	-	Native	-	-
Graminoid	<i>Glyceria striata</i>	fowl manna grass	S5?	-	Native	-	-
Graminoid	<i>Hesperostipa comata</i>	needle-and-thread	S5	-	Native	-	-
Graminoid	<i>Hordeum jubatum</i>	foxtail barley	S5	-	Native	-	-
Graminoid	<i>Hordeum vulgare</i>	cultivated barley	SNA	-	Exotic	-	-

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Graminoid	<i>Juncus alpinoarticulatus</i>	alpine rush	S5	-	Native	-	-
Graminoid	<i>Juncus balticus</i>	wire rush	S5	-	Native	-	-
Graminoid	<i>Juncus bufonius</i>	toad rush	S5	-	Native	-	-
Graminoid	<i>Juncus confusus</i>	few-flowered rush	S3	-	Native	-	-
Graminoid	<i>Juncus ensifolius</i>	equitant-leaved rush	S3	-	Native	-	-
Graminoid	<i>Juncus filliformis</i>	thread rush	S4	-	Native	-	-
Graminoid	<i>Juncus nodosus</i>	knotted rush	S5	-	Native	-	-
Graminoid	<i>Juncus tenuis</i>	slender rush	S5	-	Native	-	-
Graminoid	<i>Koeleria macrantha</i>	June grass	S5	-	Native	-	-
Graminoid	<i>Leymus innovatus</i>	hairy wild rye	S5	-	Native	-	-
Graminoid	<i>Luzula multiflora</i>	field wood-rush	S4	-	Native	-	-
Graminoid	<i>Muhlenbergia richardsonis</i>	mat muhly	S5	-	Native	-	-
Graminoid	<i>Nassella viridula</i>	green needle grass	S5	-	Native	-	-
Graminoid	<i>Oryzopsis asperifolia</i>	white-grained mountain rice grass	S5	-	Native	-	-
Graminoid	<i>Pascopyrum smithii</i>	western wheat grass	S5	-	Native	-	-
Graminoid	<i>Phalaris arundinacea</i>	reed canary grass	S5	-	Native	-	ü

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Graminoid	<i>Phleum pratense</i>	timothy	SNA	-	Exotic	-	ü
Graminoid	<i>Poa interior</i>	inland bluegrass	S5	-	Native	-	-
Graminoid	<i>Poa palustris</i>	fowl bluegrass	S5	-	Native	-	-
Graminoid	<i>Poa pratensis</i>	Kentucky bluegrass	S5	-	Native	-	ü
Graminoid	<i>Poa secunda</i>	Sandberg bluegrass	S5	-	Native	-	-
Graminoid	<i>Puccinellia nuttalliana</i>	Nuttall's salt-meadow grass	S5	-	Native	-	-
Graminoid	<i>Schizachne purpurascens</i>	purple oat grass	S5	-	Native	-	-
Graminoid	<i>Schoenoplectus acutus</i>	great bulrush	S5?	-	Native	-	-
Graminoid	<i>Schoenoplectus tabernaemontani</i>	common great bulrush	S5	-	Native	-	-
Graminoid	<i>Scirpus microcarpus</i>	small-fruited bulrush	S5	-	Native	-	-
Graminoid	<i>Trichophorum pumilum</i>	dwarf bulrush	S3	Watched	Native	-	-
Graminoid	<i>Typha latifolia</i>	common cattail	S5	-	Native	-	-
Moss	<i>Hylocomium splendens</i>	stair-step moss	S5	-	Native	-	-
Shrub	<i>Alnus viridis</i>	green alder	S5	-	Native	Secure	-
Shrub	<i>Amelanchier alnifolia</i>	saskatoon	S5	-	Native	Secure	-
Shrub	<i>Arctostaphylos uva-ursi</i>	common bearberry	S5	-	Native	Secure	-
Shrub	<i>Betula glandulosa</i>	bog birch	S5	-	Native	-	-

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Shrub	<i>Betula nana</i>	arctic dwarf birch	SU	-	Native	-	-
Shrub	<i>Betula occidentalis</i>	water birch	S4	-	Native	-	-
Shrub	<i>Betula pumila</i>	dwarf birch	S5	-	Native	-	-
Shrub	<i>Cornus stolonifera</i>	red-osier dogwood	S5	-	Native	-	-
Shrub	<i>Dasiphora fruticosa</i>	shrubby cinquefoil	S5	-	Native	-	-
Shrub	<i>Elaeagnus commutata</i>	silverberry	S5	-	Native	-	-
Shrub	<i>Juniperus communis</i>	ground juniper	S5	-	Native	-	-
Shrub	<i>Juniperus horizontalis</i>	creeping juniper	S5	-	Native	-	-
Shrub	<i>Linnaea borealis</i>	twinflower	S5	-	Native	-	-
Shrub	<i>Lonicera dioica</i>	twining honeysuckle	S5	-	Native	-	-
Shrub	<i>Ribes glandulosum</i>	skunk currant	S5	-	Native	-	-
Shrub	<i>Ribes oxycanthoides</i>	northern gooseberry	S5	-	Native	-	-
Shrub	<i>Rosa acicularis</i>	prickly rose	S5	-	Native	-	-
Shrub	<i>Rosa arkansana</i>	prairie rose	S5	-	Native	-	-
Shrub	<i>Rosa woodsia</i>	common wild rose	S5	-	Native	-	-
Shrub	<i>Rubus arcticus</i> ssp. <i>acaulis</i>	dwarf raspberry	S5	-	Native	-	-
Shrub	<i>Rubus idaeus</i>	wild red raspberry	S5	-	Native	-	-

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Shrub	<i>Rubus pubescens</i>	dewberry	S5	-	Native	-	-
Shrub	<i>Salix bebbiana</i>	beaked willow	S5	-	Native	-	-
Shrub	<i>Salix candida</i>	hoary willow	S4	-	Native	-	-
Shrub	<i>Salix discolor</i>	pussy willow	S5	-	Native	-	-
Shrub	<i>Salix exigua</i>	narrow-leaf willow	S3S4	-	Native	-	-
Shrub	<i>Salix interior</i>	sandbar willow	S5	-	Native	-	-
Shrub	<i>Salix lasiandra</i>	shinning willow	S5	-	Native	-	-
Shrub	<i>Salix lutea</i>	yellow willow	-	-	Native	-	-
Shrub	<i>Salix maccalliana</i>	velvet-fruited willow	S4	-	Native	-	-
Shrub	<i>Salix petiolaris</i>	basket willow	S5	-	Native	-	-
Shrub	<i>Salix planifolia</i>	flat-leaved willow	S5	-	Native	-	-
Shrub	<i>Salix prolixa</i>	Mackenzie's willow	S3	-	Native	-	-
Shrub	<i>Salix pseudomonticola</i>	false mountain willow	S4	-	Native	-	-
Shrub	<i>Shepherdia canadensis</i>	Canada buffaloberry	S5	-	Native	-	-
Shrub	<i>Spiraea betulifolia</i>	white meadowsweet	S5	-	Native	-	-
Shrub	<i>Symphoricarpos albus</i>	snowberry	S5	-	Native	-	-

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Shrub	<i>Symphoricarpos occidentalis</i>	buckbrush	S5	-	Native	-	-
Tree	<i>Picea glauca</i>	white spruce	S5	-	Native	-	-
Tree	<i>Populus balsamifera</i>	balsam poplar	S5	-	Native	-	-
Tree	<i>Populus tremuloides</i>	aspen	S5	-	Native	-	-
<p>Notes: ACIMS ranks are defined in the Glossary - means the species is not designated None of the species listed in this table are listed by COSEWIC or SARA (Government of Canada 2016)</p> <p>Sources: ^a Integrated Taxonomic Information System 2016 ^b ACIMS 2016 ^c Alberta Environment and Sustainable Resource Development 2012 ^d Alberta Native Plant Council 2016</p>							

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