

APPENDIX 4.D.1

North Dakota Federal and State Plant Species of Concern

Hiland Operating, LLC
Route Certificate Application Exhibits
6-inch Natural Gas Residue Pipeline – Burke and Divide Counties

TABLE 4.D.1
NORTH DAKOTA’S PLANT SPECIES OF CONCERN

Common Name	Scientific Name	Global	State	USFWS	USFS	Habitat
Avens: Purple	<i>Geum rivale</i>	G5	SH			Marshes, wet meadows, riverbanks
Barberry: Creeping	<i>Mahonia repens</i>	G5	S2			Coulees, slopes of high plains
Beaksedge: Needle	<i>Rhynchospora capillacea</i>	G4	S2			Moist calcareous fens, marsh meadows, seeps, limestone
Bedstraw: Northern Bog	<i>Galium labradoricum</i>	G5	S3			Wetland thickets, fens, swampy woods
Bellflower: Marsh	<i>Campanula aparinoides</i>	G5	S2S3			Wetland thickets, seepage, peatlands
Bells: Yellow	<i>Fritillaria pudica</i>	G5	SU		W	Grasslands, sagebrush, ponderosa pine, mixed conifer woodlands
Bellwort: Sessileleaf	<i>Uvularia sessilifolia</i>	G5	S1			Rich deciduous woods
Bentgrass: Spike	<i>Agrostis exarata</i>	G5	S1		W	Moist habitats
Blacksnakeroot: Clustered	<i>Sanicula gregaria</i>	G4Q	SH			Rich, moist woodlands
Bittercress: Bulbous	<i>Cardamine bulbosa</i>	G5	S1			Wet meadows, wood springs
Bladderwort: Flatleaf	<i>Utricularia intermedia</i>	G5	S2			Calcareous fens, seepage peatlands
Bladderwort: Lesser	<i>Utricularia minor</i>	G5	S2S3			Calcareous fens, seeps
Blisterwort	<i>Ranunculus recurvatus</i>	G5	S1			Wooded ravines, swampy woods
Blue-Eyed Mary: Maiden	<i>Collinsia parviflora</i>	G5	S2		S	Moderately moist slopes, understory of open woodlands, dry plains, pine slopes
Breeches: Dutchman’s	<i>Dicentra cucullaria</i>	G5	S1			Rich eastern woodlands
Brome: Arctic	<i>Bromus kalmii</i>	G5	SU			Open oak woods, sandy soils
Brome: Mountain	<i>Bromus carinatus</i>	G5	S1		W	Disturbed, moist woods, dry meadows, sagebrush
Broomrape: One-Flowered	<i>Orobanche uniflora</i>	G5	SH			Damp woods, thickets
Broomrape: Yellow	<i>Orobanche multiflora</i>	G5T5	S?		W	Dry sandy soils, dunes, gypsum ridges
Buckbean: Bog	<i>Menyanthes trifoliata</i>	G5	S3			Sphagnum bogs, fen peatlands
Buckwheat: Dakota	<i>Eriogonum visherii</i>	G3	S2S3		S	Barren, erodible, rock outcrops in badland habitat
Buckwheat: Nodding	<i>Eriogonum cernuum</i>	G5	S1		S	Erosional breaks in sandy grasslands, sandstone colluvium

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TABLE 4.D.1 (CONTINUED)						
NORTH DAKOTA'S PLANT SPECIES OF CONCERN						
Common Name	Scientific Name	Global	State	USFWS	USFS	Habitat
Buttercup: Heartleaf	<i>Ranunculus cardiophyllus</i>	G4G5	S1		W	Mountain meadows along streams, seeps
Cactus: Missouri Pincushion	<i>Escobaria missouriensis</i>	G5	S?		S	Dry, rocky areas
Calla: Wild	<i>Calla palustris</i>	G5	S2			Northern marshes and swamps
Carrionflower: Upright	<i>Smilax ecirrhata</i>	G5?	S1S2		W	Rich deciduous woods and thickets
Cinquefoil: Diverse Leaved	<i>Potentilla diversifolia</i>	G5	S1		W	Drainages, meadows
Cinquefoil: Three-Toothed	<i>Potentilla tridentata</i>	G5	S1		W	Gravel shores, dry shale outcrops of prairie hillsides, scoria
Clematis: Rock	<i>Clematis columbiana var. tenuiloba</i>	G5?T4?	S1		W	Rocky slopes, limestone soils
Cliffbrake: Smooth	<i>Pellaea glabella</i>	G5	S4			Sandstone caprock of buttes and ledges
Clover: Nineanther Prairie	<i>Dalea enneandra</i>	G5	S2S3			Sandy or gravelly slopes, dry mixed grass prairies
Cohosh: Blue	<i>Caulophyllum thalictroides</i>	G4G5	S1			Moist rich woods
Coltsfoot: Arctic Sweet	<i>Petasites frigidus</i>	G5	S2			Damp meadows, woods
Cottongrass: Chamisso's	<i>Eriophorum chamissonis</i>	G5	S1			Bogs, marshes, peaty fens
Cottongrass: Slender	<i>Eriophorum gracile</i>	G5	S1			Seepage fens
Cottonsedge: Thinleaf	<i>Eriophorum viridicarinatum</i>	G5	S1			Sphagnum bogs, peaty fens
Cottonwood: Lanceleaf	<i>Populus acuminata</i>	GNA	S2		S	Floodplains, streambanks
Cryptantha: Torrey's	<i>Cryptantha torreyana</i>	G5	S1		S	Dry plains, pine slopes, on scoria
Culver's Root	<i>Veronicastrum virginicum</i>	G4	SH			Low prairie, rich woods
Daisy: Easter	<i>Townsendia exscapa</i>	G5	S1		S	Dry barren plain, hillsides on gravelly exposures, weathered bedrock
Dustymaiden: Douglas'	<i>Chaenactis douglasii</i>	G5	S2			Scoria slopes and buttes
Fern: Eastern Marsh	<i>Thelypteris palustris</i>	G5	S3			Wetland thickets, shrubby fens
Fern: Sensitive	<i>Onoclea sensibilis</i>	G5	S2S3			Wetland thickets, fen peatlands, damp, shady woodlands
Fern: Western Oak	<i>Gymnocarpium dryopteris</i>	G5	S1			North-facing or shady wooded slopes

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TABLE 4.D.1 (CONTINUED)
NORTH DAKOTA'S PLANT SPECIES OF CONCERN

Common Name	Scientific Name	Global	State	USFWS	USFS	Habitat
Fameflower: Prairie	<i>Talinum parviflorum</i>	G5	S2		W	Sandy acidic soil, overlying bedrock
Flatsedge: Slender	<i>Cyperus bipartitus</i>	G5	S1S2			Cool, spring-fed streams
Flatsedge: Umbrella	<i>Cyperus diandrus</i>	G5	S2S3			Sandy or muddy shores, stream margins
Fleabane: Spreading	<i>Erigeron divergens</i>	G5	S1		W	Dry, open, rocky, sandy, loose soils
Fleabane: Tap Rooted	<i>Erigeron radicans</i>	G3G4	S1		W	Exposed hills, slopes, ridges
Fritillary: Yellow	<i>Fritillaria pudica</i>	G5	SU			Ephemeral moist areas of buttes
Frostweed: Hoary	<i>Helianthemum bicknellii</i>	G5	S1			Open woods, prairies, usually dry sandy soil
Garlic: Wild	<i>Allium tricoccum</i>	G5	SU			Rich undisturbed woods
Gentian: Fringed	<i>Gentianopsis crinita</i>	G5	S1			Low wet prairies, streambanks
Gentian: Spurred	<i>Halenia deflexa</i>	G5	S2S3			Wetland thickets, damp shady woods
Geranium: Wild	<i>Geranium maculatum</i>	G5	SH			Rich, eastern deciduous woods
Goldenrod: Riddell's	<i>Solidago riddellii</i>	G5	SH			Low prairies, wet meadows
Goldenrod: Zigzag	<i>Solidago flexicaulis</i>	G5	S1S2			Rich deciduous woodlands
Gooseberry: Prickly	<i>Ribes cynosbati</i>	G5	S3			Moist rich woods
Goosefoot: Smooth	<i>Chenopodium subglabrum</i>	G3G4	S1		S	Sandy river terraces, sand colluviums, sand blowouts, sand dunes
Grapefern: Least	<i>Botrychium simplex</i>	G5	SU			Meadows, barrens, woods, subacid soils
Grapefern: Leathery	<i>Botrychium multifidum</i>	G5	S1			Wet meadows, rich woodlands
Grapefern: Matricary	<i>Botrychium matricariifolium</i>	G5	S1S2			Moist woodlands
Grass of Parnassus: Small-Flowered	<i>Parnassia palustris</i> var. <i>parviflora</i>	G4	SU			Calcareous fens, bogs
Groundnut: American	<i>Apios americana</i>	G5	SH			Moist woods, thickets banks
Ragwort: Desert	<i>Senecio eremophilus</i>	G5	S2			Open sites in aspen woodlands
Hawthorn: Downy	<i>Crataegus mollis</i>	G5	S1			Open mesic woods
Heather: Woolly Beach	<i>Hudsonia tomentosa</i>	G5	S1			Sand prairies, dunes

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Common Name	Scientific Name	Global	State	USFWS	USFS	Habitat
Honeysuckle: Northern Bush	<i>Diervilla lonicera</i>	G5	S1			Shady woodlands, usually aspen
Horsetail: Marsh	<i>Equisetum palustre</i>	G5	S2			Willow/alder thickets, swampy woods, streambanks
Horsetail: Meadow	<i>Equisetum pratense</i>	G5	S2			Moist woodlands, shady streambanks
Horsetail: Variegated	<i>Equisetum variegatum</i>	G5	S1			Marl pools of calcareous fens
Horsetail: Woodland	<i>Equisetum sylvaticum</i>	G5	S2			Moist aspen or lowland woods, seeps
Indian Pipe	<i>Monotropa uniflora</i>	G5	S3			Rich shady woodlands
Iris: Rocky Mountain	<i>Iris missouriensis</i>	G5	S2			Mesic areas within mixed grass prairie
Knotweed: Thin-Fruited	<i>Polygonum leptocarpum</i>	G2G4Q	S1			Damp, dry soils on clay
Ladies'-Tresses: Hooded	<i>Spiranthes romanzoffiana</i>	G5	S1			Fens, wet meadows
Ladies'-Tresses: Nodding	<i>Spiranthes cernua</i>	G5	S1			Fens, low prairies
Ladyfern: Common	<i>Athyrium filix-femina</i>	G5	S3			Moist woods, thickets, bogs, along streams
Lady's-Slipper: Large Yellow	<i>Cypripedium parviflorum var. pubescens</i>	G5T5	S2			Boggy areas, wet prairies
Lady's-Slipper: Lesser Yellow	<i>Cypripedium parviflorum</i>	G5	S2S3			Damp woods, fens, streambanks
Lady's-Slipper: Showy	<i>Cypripedium reginae</i>	G4	S2S3			Swampy woodlands, thickets, fens
Lady's-Slipper: White	<i>Cypripedium candidum</i>	G4	S2S3			Low prairie, wet meadows
Leatherwood: Eastern	<i>Dirca palustris</i>	G4	S1			Shady, damp woodland slopes
Lily: Sand	<i>Leucocrinum montanum</i>	G5	S2		S	Grass/sagebrush prairies, open conifer woodlands, sandy soils
Lipfern: Slender	<i>Cheilanthes feei</i>	G5	S1			Dry rocky slopes, sandstone, limestone
Locoweed: Nodding	<i>Oxytropis deflexa</i>	G5	S1S2			Sandy lake shores, low meadows, aspen woodland clearings
Locoweed: White	<i>Oxytropis sericea</i>	G5	S1		W	Rocky prairies, gravel banks, open wooded hillsides
Mentzelia: Dwarf	<i>Mentzelia pumila</i>	G4	S1		S	Scoria outcrops, arid slopes, sandy plains, hard barren clay
Milkvetch: Bent-Flower	<i>Astragalus vexilliflexus</i>	G4	S3		W	Rocky knolls and open wooded hillsides
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Common Name	Scientific Name	Global	State	USFWS	USFS	Habitat
Milkvetch: Cooper's	<i>Astragalus neglectus</i>	G4	S1			Sandy, gravelly shores, mesic gravelly prairie
Milkvetch: Drummond's	<i>Astragalus drummondii</i>	G5	S1		W	Prairies to open wooded/bushy hillsides/ravines, all soil
Milkvetch: Indian	<i>Astragalus australis</i>	G5	S2S3		W	Open wooded hillsides, bluffs, limestone
Milkweed: Prairie	<i>Asclepias sullivantii</i>	G5	SH			Mesic tallgrass prairies
Milkweed: Woolly	<i>Asclepias lanuginosa</i>	G4?	S1			Sandy or rocky calcareous prairie
Mimosa: Prairie	<i>Desmanthus illinoensis</i>	G5	S1			Prairies with rocky or sandy soils
Miterwort: Naked	<i>Mitella nuda</i>	G5	S3			Swampy lowland woods and thickets
Monkeyflower: Common Large	<i>Mimulus guttatus</i>	G5	S1			Marshes, along streams and lake shores
Moonwort: Iowa	<i>Botrychium campestre</i>	G3G4	S1			Dry, gravelly or sandy prairies
Moonwort: Mingan	<i>Botrychium minganense</i>	G4	S1			Wooded, often north-facing slopes, meadows
Mousetail: Bristly	<i>Myosurus apetalus var. montanus</i>	G5	S?		W	Moist areas, vernal pools, lowlands
Muhly: Pullup	<i>Muhlenbergia filiformis</i>	G5	S1			Marl pools of calcareous fens
Naiad: Spiny	<i>Najas marina</i>	G5	S1			Alkaline lakes, ponds
Naiad: Southern	<i>Najas guadalupensis</i>	G5	S1			Lakes or streams
Onion: Meadow	<i>Allium canadense</i>	G5	S1			Prairies, open woods
Orchid: Small Green Wood	<i>Platanthera clavellata</i>	G5	SH			Swampy woods, bogs
Orchid: Snakemouth	<i>Pogonia ophioglossoides</i>	G5	SU			Swampy woods, bogs
Orchid: Western Prairie Fringed	<i>Platanthera praeclara</i>	G2	S2	T		Moist prairie swales of sandhills
Penstemon: Littleflower	<i>Penstemon procerus</i>	G5	S1			Northern prairie slopes
Phlox: Alyssum-Leaved	<i>Phlox alyssifolia</i>	G5	S1S2		S	Sandy/gravelly soil of open prairies, clay banks, limestone ridges
Phlox: Downy	<i>Phlox pilosa</i>	G5	SH			Mesic prairies of open woodlands
Pine: Limber	<i>Pinus flexilis</i>	G4	S1		S	Arid, exposed rocky ridges, foothills
Pinweed: Upright	<i>Lechea stricta</i>	G4?	S1			Dry, sandy woods and prairies
Pondweed: Floating	<i>Potamogeton natans</i>	G5	S2			Cold, shallow to deep lakes and streams

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Common Name	Scientific Name	Global	State	USFWS	USFS	Habitat
Pondweed: Narrowleaf	<i>Potamogeton strictifolius</i>	G5	S1			Shallow lakes, streams
Pondweed: Sheathed	<i>Potamogeton vaginatus</i>	G5	S3			Usually deep cold lakes, ponds
Pondweed: Slender	<i>Potamogeton filiformis</i>	G5	S2S3			Shallow lakes, ponds, streams
Pondweed: Water-Thread	<i>Potamogeton diversifolius</i>	G5	S2S3		W	Shallow ponds, marshes
Pondweed: White-Stem	<i>Potamogeton praelongus</i>	G5	S1			Usually cool, deep water of lakes
Primrose: Cutleaf Evening	<i>Oenothera laciniata</i>	G5	S?		W	Sandy prairie, disturbed pastures, roadsides, stream valleys
Primrose: Fourpoint Evening	<i>Oenothera rhombipetala</i>	G4G5	SA			Sandy prairies
Primrose: Silvery	<i>Primula incana</i>	G4G5	S1S2			Alkali wet meadows, fens
Primrose: Smooth Spike	<i>Boisduvalia glabella</i>	G5	S1S2		W	Small streams, vernal pools
Ricegrass: Slender Mountain	<i>Piptatherum pungens</i>	G5	S1			Xeric slopes, usually shale
Rush: Narrow-Panicled	<i>Juncus brevicaudatus</i>	G5	S2			Wet meadows, fens, marshes
Rush: Rannoch	<i>Scheuchzeria palustris</i>	G5	S1			Sphagnum bogs,
Rush: Vasey's	<i>Juncus vaseyi</i>	G5?	SU			Wet meadows, shores
Sacaton: Alkali	<i>Sporobolus airoides</i>	G5	S2		S	Sandy/gravelly soil, clay outwash, saline conditions
Sandgrass: Purple	<i>Triplasis purpurea</i>	G4G5	S1			Sandy prairies, blowouts
Scurfpea: Slim-Flowered	<i>Psoralea tenuiflora</i>	G5	SH			Dry prairie, high plains
Sedge: Back's	<i>Carex backii</i>	G4	S2S3			Damp, wooded areas
Sedge: Bristlystalked	<i>Carex leptalea</i>	G5	S2S3			Shrubby peatland fens, swampy woods and thickets
Sedge: Broom	<i>Carex scoparia</i>	G5	SH			Damp woods, low prairie, lakeshores
Sedge: Brownish	<i>Carex brunnescens</i>	G5	S1			Fens, wet wooded areas
Sedge: Buxbaum's	<i>Carex buxbaumii</i>	G5	S1S2			Wet meadows, fens
Sedge: Copycat	<i>Carex simulata</i>	G5	S2			Calcareous fens, wet meadows
Sedge: Creeping	<i>Carex chordorrhiza</i>	G5	S1			Sphagnum bogs, poor fens
Sedge: Dioecious	<i>Carex sterilis</i>	G4	S1S2			Seepage peatland fens, wet meadows

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Common Name	Scientific Name	Global	State	USFWS	USFS	Habitat
Sedge: Elk	<i>Carex garberi</i>	G5	S1S2			Fens, swamps, pond margins
Sedge: Fescue	<i>Carex festucacea</i>	G5	SU			Wooded areas
Sedge: Foxtail	<i>Carex alopecoidea</i>	G5	S2			Damp, rich, wooded areas
Sedge: Graceful	<i>Carex gracillima</i>	G5	S1			Moist swampy woods
Sedge: Hair-Like	<i>Carex capillaris</i>	G5	S1S2			Wet meadows, fens
Sedge: Handsome	<i>Carex formosa</i>	G4	S1			Low, moist, eastern woodlands
Sedge: Hayden's	<i>Carex haydenii</i>	G5	S1			Wet meadows, sloughs
Sedge: Jointed-Spike	<i>Carex athrostachya</i>	G5	S3			Low prairie, marsh margins
Sedge: Lesser Panicked	<i>Carex diandra</i>	G5	S2S3			Swamps, meadows, shores
Sedge: Longstalk	<i>Carex pedunculata</i>	G5	S1S2			Moist oak or birch woodlands
Sedge: Mud	<i>Carex limosa</i>	G5	S2			Sphagnum bogs, fens
Sedge: Nebraska	<i>Carex nebrascensis</i>	G5	S2			Wet meadows, stream margins
Sedge: Northern Bog	<i>Carex gynocrates</i>	G5	S1			Peaty fens
Sedge: Northern Singlespike	<i>Carex scirpoidea</i>	G5	S1S2			Rocky slopes, wet meadows
Sedge: Richardson's	<i>Carex richardsonii</i>	G4	S1			Low, usually sandy, prairie
Sedge: Rosy	<i>Carex convoluta</i>	G5	S1			Rich, deciduous woodlands
Sedge: Small-Flower Halfchaff	<i>Lipocarpha micrantha</i>	G5	S1?			Wet sandy areas, sandbars
Sedge: Silvertop	<i>Carex foenea</i>	G5	S1S2		W	Dry open soil in wooded areas
Sedge: Star	<i>Carex echinata ssp. echinata</i>	G5T5	S1			Sphagnum bogs
Sedge: Woolyfruit	<i>Carex lasiocarpa</i>	G5	S3			Sphagnum bogs, seepage-fed peatlands, lake borders
Sicklepod	<i>Arabis canadensis</i>	G5	S1			Mesic woodlands
Smartweed: Dotted	<i>Polygonum punctatum</i>	G5	S2S3			Swampy thickets, wet meadows, riverbanks
Smartweed: Swamp	<i>Polygonum hydropiperoides</i>	G5	S1			Rooted in or near water
Sphagnum	<i>Sphagnum teres</i>	G5	S1			Bogs, fens, forests, near wetlands

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Common Name	Scientific Name	Global	State	USFWS	USFS	Habitat
Spearwort: Greater Creeping	<i>Ranunculus flammula</i>	G5	S1			Marshes, damp shores
Spike-Moss: Ledge	<i>Selaginella rupestris</i>	G5	S1			Sandy soils near oak woodlands
Spikerush: Few-Flowered	<i>Eleocharis pauciflora</i>	G5	S2S3			Calcareous fens, seeps
Spikerush: Dwarf	<i>Eleocharis parvula</i>	G5	S1S2			Brackish, alkaline shores
Spikerush: Wolf's	<i>Eleocharis wolfii</i>	G3?	SH			Shores, low, wet prairie
Spurge: Rocky Mountain	<i>Euphorbia robusta</i>	G5	S1			Dry, sandy or gravelly prairie slopes
Stickseed: Great Plains	<i>Lappula cenchrusoides</i>	G4	S1			Dry soils in open areas
Stitchwort: Rock	<i>Minuartia dawsonensis</i>	G5	S1			Open rocky or gravelly areas on shale
Sundew: Roundleaf	<i>Drosera rotundifolia</i>	G5	S1			Acid bogs, swamps
Sweetflag	<i>Acorus americanus</i>	G5	S3			Peatlands, fens, seeps
Tea: Navajo	<i>Thelesperma subnudum</i> var. <i>marginatum</i>	G5T5	S2S3			Sandy prairie, open plains
Tearthumb: Arrow-Leaf	<i>Polygonum sagittatum</i>	G5	SH			Marshes, wet meadows
Townsendia, Hooker's	<i>Townsendia hookeri</i>	G5	S1		S	Butte summits
Twayblade: Loesel's	<i>Liparis loeselii</i>	G5	S2			Damp woods, prairie swales, fens
Twinflower	<i>Linnaea borealis</i>	G5	S4			Moist, wooded, north-facing slopes
Violet: American Bog	<i>Viola conspersa</i>	G5	S2S3			Moist woods, streambanks
Violet: Sweet White	<i>Viola incognita</i>	G4G5	SH			Moist woods
Watermeal: Columbian	<i>Wolffia columbiana</i>	G5	S2			Aquatic in quiet waters
Watermilfoil: Cutleaf	<i>Myriophyllum pinnatum</i>	G5	S2S3			Shallows of marshes and shores
Whitegrass	<i>Leersia virginica</i>	G5	SU			Moist woods, streambanks
Wildrye: Blue	<i>Elymus glaucus</i>	G5	S1			Open woods, prairie slopes
Willow: Bog	<i>Salix pedicellaris</i>	G5	S3			Sphagnum bogs, fens
Willow: Swamp	<i>Salix maccalliana</i>	G5?	S1			Bogs, swamps
Willowherb: Purpleleaf	<i>Epilobium coloratum</i>	G5	SU			Marshes, seeps, shores
Wirelettuce: Narrow-Leaved	<i>Stephanomeria tenuifolia</i>	G5	SU			Dry, clay outcrops

* Data provided by the USFWS, USFS, ND Game & Fish Dept., North Dakota Natural Heritage Program, and NatureServe.

TABLE 4.D.1 (CONTINUED)						
NORTH DAKOTA'S PLANT SPECIES OF CONCERN						
Common Name	Scientific Name	Global	State	USFWS	USFS	Habitat
Woodfern: Crested	<i>Dryopteris cristata</i>	G5	S3			Swampy woods and thickets, seeps
Woodfern: Spinulose	<i>Dryopteris carthusiana</i>	G5	S3			Rich, moist woods, ravines, boggy areas, alder thickets
Yellow-Cress: Persistent	<i>Rorippa calycina</i>	G3	SH		W	Sandy shores of rivers and streams
* Data provided by the USFWS, USFS, ND Game & Fish Dept., North Dakota Natural Heritage Program, and NatureServe.						