

Attachment K. Legal Constraints Matrix.

The matrix below documents all the possible legal constraints affecting forest management in the project boundary.

Rule/Regulation	Lead Agency	Description	Notes
Conservation Easement	Wisconsin Department of Natural Resources	The project area is subject to a conservation easement administered by the Wisconsin DNR. The easement is intended to permit and encourage the production of forest products through sustainable forest management activities while also limiting development and fragmentation of the ownership.	The conservation easement allows the current and future owners the right to conduct commercial forestry operations on the property to the terms on the conservation easement. The conservation easement states that the property will be managed according to sound and generally accepted silvicultural standards as defined by the most recent version of the Wisconsin Forest Management Guidelines (see below as additional legal constraint item). The baseline model will respect and adhere to the applicable legal requirements within the conservation easement for the duration of the planning period (100 years).
Wisconsin Managed Forest Law (MFL)	Wisconsin Department of Natural Resources; Forestry Division	A landowner incentive program intended to encourage sustainable forestry practices on private woodlands in Wisconsin. The law incorporates timber harvesting, wildlife management, water quality and recreation to maintain a healthy and productive forest. This program requires a Forest Management Plan that is submitted to the Wisconsin Department of Natural Resources.	The baseline model will adhere to the silvicultural guidelines associated with the Management Plan submitted for enrollment in MFL program for the duration of the planning period (100-years).
State of Wisconsin Forest Management Guidelines	Wisconsin Department of Natural Resources; Forestry Division	Wisconsin Forest Management Guidelines outline practical, site-specific considerations land managers need to take into account when they plan and carry out forestry operations.	Application of the Forest Management Guidelines is voluntary. The baseline model assumes harvest operations that would occur as part of the baseline harvest schedule would adhere to the Forest Management Guidelines for the duration of the planning period (100 years).
Clean Water Act	US Environmental Protection Agency	Through a variety of programs (including, as appropriate, non-regulatory or regulatory programs), states assist and encourage producers to use best management practices to reduce or prevent instances of nonpoint source pollutants migrating into waters. Accordingly, the State of Wisconsin developed a set of voluntary Forestry Best Management Practices (BMPs). These practices are designed to provide guidelines for conducting forest management activities in the best way to reduce impact to water quality as well as certain wildlife habitat values.	The baseline model will adhere to all related BMPs related to RMZs for the duration of the planning period (100-years).
Endangered Species Act (ESA); Wisconsin State	US Fish and Wildlife Service; Wisconsin Department of Natural Resources	The Endangered Species Act (ESA) provides a program for the conservation of threatened and	It is assumed that all aspects of this law will be followed in normal timber harvest operations and any necessary permits will be obtained. No specifics of this law are

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Statute 29.604	Resources	endangered plants and animals and the habitats in which they are found.	required to be modeled as legal constraints in the baseline. All federally protected species in Florence and Forest counties and their status are listed in the table below: <table><tr><th>Common Name</th><th>Scientific Name</th><th>Status</th></tr><tr><td>Gray wolf</td><td><i>Canis lupus</i></td><td>Endangered</td></tr><tr><td>Canada lynx</td><td><i>Lynx canadensis</i></td><td>Threatened</td></tr><tr><td>Northern Long-eared bat</td><td><i>Myotis septentrionalis</i></td><td>Threatened</td></tr></table> Endangered and threatened species monitored by the Wisconsin state Department of Natural Resources are included as an Appendix to this document All timber management activities on the site would avoid any taking of these species or damage to the habitat. There are no spatial or timber management restrictions for these species which will be modeled in the baseline.	Common Name	Scientific Name	Status	Gray wolf	<i>Canis lupus</i>	Endangered	Canada lynx	<i>Lynx canadensis</i>	Threatened	Northern Long-eared bat	<i>Myotis septentrionalis</i>	Threatened
Common Name	Scientific Name	Status													
Gray wolf	<i>Canis lupus</i>	Endangered													
Canada lynx	<i>Lynx canadensis</i>	Threatened													
Northern Long-eared bat	<i>Myotis septentrionalis</i>	Threatened													
Local Ordinances		n/a	There are no local ordinances or regulations affecting timber harvesting in the Project Area.												

Wisconsin's Endangered and Threatened Species List

Effective Dates of Listing

(A) October 1, 1972	(E) November 1, 1981	(I) August 1, 1997
(B) October 1, 1975	(F) December 1, 1982	(J) October 1, 1999
(C) May 1, 1978	(G) April 1, 1985	(K) June 1, 2011
(D) October 1, 1979	(H) August 1, 1989	(L) January 1, 2014

MAMMALS

ENDANGERED

(A) American Marten	<i>Martes americana</i>
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THREATENED

(K) Big brown bat	<i>Eptesicus fuscus</i>
(K) Little brown bat	<i>Myotis lucifugus</i>
(K) Northern long-eared bat*	<i>Myotis septentrionalis</i>
(K) Eastern pipistrelle	<i>Perimyotis subflavus</i>

BIRDS

ENDANGERED

(D) Piping Plover**	<i>Charadrius melodus</i>
(L) Black Tern	<i>Chlidonias niger</i>
(B) Peregrine Falcon	<i>Falco peregrinus</i>
(H) Worm-eating Warbler	<i>Helmitheros vermivorum</i>
(H) Caspian Tern	<i>Hydroprogne caspia</i>
(D) Loggerhead Shrike	<i>Lanius ludovicianus</i>
(F) Red-necked Grebe	<i>Podiceps grisegena</i>
(H) Yellow-throated Warbler	<i>Setophaga dominica</i>
(L) Kirtland's Warbler**	<i>Setophaga kirtlandii</i>
(D) Forster's Tern	<i>Sterna forsteri</i>
(D) Common Tern	<i>Sterna hirundo</i>

THREATENED

(I) Henslow's Sparrow	<i>Ammodramus henslowii</i>
(D) Great Egret	<i>Ardea alba</i>
(L) Upland Sandpiper	<i>Bartramia longicauda</i>
(D) Red-shouldered Hawk	<i>Buteo lineatus</i>
(I) Yellow Rail	<i>Coturnicops noveboracensis</i>
(H) Acadian Flycatcher	<i>Empidonax virens</i>
(I) Spruce Grouse	<i>Falcapennis canadensis</i>
(H) Kentucky Warbler	<i>Geothlypis formosa</i>
(H) Yellow-Crowned Night-Heron	<i>Nyctanassa violacea</i>
(H) Cerulean Warbler	<i>Setophaga cerulea</i>
(H) Hooded Warbler	<i>Setophaga citrina</i>
(D) Greater Prairie-Chicken	<i>Tympanuchus cupido</i>
(H) Bell's Vireo	<i>Vireo bellii</i>

AMPHIBIANS

ENDANGERED

(F) Blanchard's Cricket Frog	<i>Acris blanchardi</i>
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REPTILES

ENDANGERED

(D) Slender Glass Lizard	<i>Ophisaurus attenuatus</i>
(A) Queensnake	<i>Regina septemvittata</i>
(B) Eastern Massasauga	<i>Sistrurus catenatus catenatus</i>
(A) Ornate Box Turtle	<i>Terrapene ornata</i>
(D) Western Ribbonsnake	<i>Thamnophis proximus</i>
(D) Eastern Ribbonsnake	<i>Thamnophis sauritus</i>

THREATENED

(B) Wood Turtle	<i>Glyptemys insculpta</i>
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FISHES

ENDANGERED

(H) Skipjack Herring	<i>Alosa chrysochloris</i>
(D) Crystal Darter	<i>Crystallaria asprella</i>
(D) Gravel Chub	<i>Erimystax x-punctatus</i>
(D) Bluntnose Darter	<i>Etheostoma chlorosoma</i>
(D) Starhead Topminnow	<i>Fundulus dispar</i>
(D) Goldeye	<i>Hiodon alosoides</i>
(D) Pallid Shiner	<i>Hybopsis amnis</i>
(D) Striped Shiner	<i>Luxilus chrysocephalus</i>
(I) Black Redhorse	<i>Moxostoma duquesnei</i>
(D) Slender Madtom	<i>Noturus exilis</i>

THREATENED

(D) Blue Sucker	<i>Cycleptus elongatus</i>
(D) Black Buffalo	<i>Ictiobus niger</i>
(D) Longear Sunfish	<i>Lepomis megalotis</i>
(H) Redfin Shiner	<i>Lythrurus umbratilis</i>
(D) Shoal Chub	<i>Macrhybopsis hyostoma</i>
(H) River Redhorse	<i>Moxostoma carinatum</i>
(H) Pugnose Shiner	<i>Notropis anogenus</i>
(A) Ozark Minnow	<i>Notropis nubilus</i>
(D) Gilt Darter	<i>Percina evides</i>
(H) Paddlefish	<i>Polyodon spathula</i>

MUSSELS

ENDANGERED

(H) Spectaclecase**	<i>Cumberlandia monodonta</i>
(H) Purple Wartyback	<i>Cyclonaias tuberculata</i>
(H) Butterfly	<i>Ellipsaria lineolata</i>
(H) Elephant-Ear	<i>Elliptio crassidens</i>
(H) Snuffbox**	<i>Epioblasma triquetra</i>
(H) Ebonyshell	<i>Fusconaia ebena</i>
(C) Higgins Eye**	<i>Lampsilis higginsii</i>
(H) Yellow/Slough Sandshell	<i>Lampsilis teres</i>
(H) Sheepnose**	<i>Plethobasus cyphus</i>
(H) Winged Mapleleaf**	<i>Quadrula fragosa</i>
(H) Rainbow	<i>Villosa iris</i>

THREATENED

(H) Slippershell mussel	<i>Alasmidonta viridis</i>
(H) Rock-Pocketbook	<i>Arcidens confragosus</i>
(H) Monkeyface	<i>Quadrula metanevra</i>
(H) Wartyback	<i>Quadrula nodulata</i>
(H) Salamander Mussel	<i>Simpsonaias ambigua</i>
(H) Buckhorn	<i>Tritogonia verrucosa</i>
(L) Fawnsfoot	<i>Truncilla donaciformis</i>
(H) Ellipse	<i>Venustaconcha ellipsiformis</i>

SNAILS

ENDANGERED

(H) Midwest Pleistocene Vertigo	<i>Vertigo hubrichti</i>
(H) Occult Vertigo	<i>Vertigo occulta</i>

THREATENED

(H) Wing Snaggletooth	<i>Gastrocopta procera</i>
(H) Cherrystone Drop	<i>Hendersonia occulta</i>

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INSECTS

ENDANGERED

(H) Pecatonica River Mayfly	<i>Acanthametropus pecatonica</i>
(I) Red-tailed Prairie Leafhopper	<i>Aflexia rubranura</i>
(H) Flat-headed Mayfly	<i>Spinadis simplex</i>
(L) A Leafhopper	<i>Attenuipyga vanduzeei</i>
(H) Swamp Metalmark	<i>Calephelis muticum</i>
(L) Hairy-necked Tiger Beetle	<i>Cicindela hirticollis rhodensis</i>
(L) Ottoe Skipper	<i>Hesperia ottoe</i>
(H) Northern Blue Butterfly	<i>Lycaeides idas</i>
(H) Giant Carrion Beetle**	<i>Nicrophorus americanus</i>
(H) Poweshiek Skipperling**	<i>Oarisma poweshiek</i>
(H) Extra-striped Snaketail	<i>Ophiogomphus anomalus</i>
(I) Saint Croix Snaketail	<i>Ophiogomphus susbehcha</i>

(H) Silphium Borer Moth

Papaipema silphii

(H) Phlox Moth

Schinia indiana

(I) Hine's Emerald**

Somatochlora hineana

(I) Incurvate Emerald

Somatochlora incurvata

(H) Regal Fritillary

Speyeria idalia

(H) Knobels Riffle Beetle

Stenelmis knobeli

(I) Lake Huron Locust

Trimerotropis huroniana

THREATENED

(L) An Issid Planthopper

Fitchiella robertsoni

(H) Frosted Elfin

Callophrys irus

(I) Prairie Leafhopper

Polyamia dilata

(I) Spatterdock Darner

Rhionaeschna mutata

PLANTS

ENDANGERED

(G) Pale False Foxglove	<i>Agalinis skinneriana</i>
(E) Carolina Anemone	<i>Anemone caroliniana</i>
(D) Cut-leaved Anemone	<i>Anemone multifida</i> var. <i>multifida</i>
(D) Large-leaved Sandwort	<i>Moehringia (=Arenaria) macrophylla</i>
(D) Lake Cress	<i>Armoracia lacustris</i>
(G) Purple Milkweed	<i>Asclepias purpurascens</i>
(D) Green Spleenwort	<i>Asplenium trichomanes-ramosum</i>
(D) Alpine Milk Vetch	<i>Astragalus alpinus</i>
(E) Prairie Plum	<i>Astragalus crassicaupus</i>
(G) Cooper's Milk Vetch	<i>Astragalus neglectus</i>
(I) Prairie Moonwort	<i>Botrychium campestre</i>
(E) Common Moonwort	<i>Botrychium lunaria</i>
(G) Goblin Fern	<i>Botrychium mormo</i>
(D) Floating Marsh Marigold	<i>Caltha natans</i>
(G) Wild Hyacinth	<i>Camassia scilloides</i>
(E) Ravenfoot Sedge	<i>Carex crus-corvi</i>
(I) Smooth-sheathed Sedge	<i>Carex laevivaginata</i>
(D) False Hop Sedge	<i>Carex lupuliformis</i>
(D) Intermediate Sedge	<i>Carex media</i>
(I) Schweinitz's Sedge	<i>Carex schweinitzii</i>
(E) Brook Grass	<i>Catabrosa aquatica</i>
(D) Hemlock-parsley	<i>Conioselinum chinense</i>
(E) Obovate Beak Grass	<i>Diarrhena obovata</i>
(D) Hoary Whitlow-grass	<i>Draba cana</i>
(I) Neat Spike-rush	<i>Eleocharis nitida</i>
(D) Square-stem Spike-rush	<i>Eleocharis quadrangulata</i>
(I) Wolf's Spike-rush	<i>Eleocharis wolfii</i>
(D) Harbinger-of-Spring	<i>Erigenia bulbosa</i>
(D) Chestnut Sedge	<i>Fimbristylis puberula</i>
(E) Dwarf Umbrella Sedge	<i>Fuirena pumila</i>
(D) Northern Commandra	<i>Geocaulon lividum</i>

PLANTS cont.

(H) Bog Rush	<i>Juncus stygius</i>
(H) Prairie Bush Clover*	<i>Lespedeza leptostachya</i>
(E) Dotted Blazing Star	<i>Liatris punctata</i> var. <i>nebraskana</i>
(D) Auricled Twayblade	<i>Listera auriculata</i>
(I) Fly Honeysuckle	<i>Lonicera involucrata</i>
(E) Smith's Melic Grass	<i>Melica smithii</i>
(I) Mat Muhly	<i>Muhlenbergia richardsonis</i>
(I) Louisiana Broomrape	<i>Orobanche ludoviciana</i>
(H) Fassett's Locoweed*	<i>Oxytropis campestris</i> var. <i>chartacea</i>
(D) Small-flowered Grass-of-Parnassus	<i>Parnassia parviflora</i>
(E) Smooth Phlox	<i>Phlox glaberrima</i> ssp. <i>interior</i>
(E) Butterwort	<i>Pinguicula vulgaris</i>
(D) Heart-leaved Plantain	<i>Plantago cordata</i>
(H) Eastern Prairie White Fringed Orchid*	<i>Platanthera leucophaea</i>
(I) Western Jacob's Ladder	<i>Polemonium occidentale</i> ssp. <i>lacustre</i>
(D) Pink Milkwort	<i>Polygala incarnata</i>
(G) Spotted Pondweed	<i>Potamogeton pulcher</i>
(E) Rough White Lettuce	<i>Prenanthes aspera</i>
(D) Great White Lettuce	<i>Prenanthes crepidinea</i>
(D) Pine-drops	<i>Pterospora andromedea</i>
(D) Small Shinleaf	<i>Pyrola minor</i>
(E) Small Yellow Water Crowfoot	<i>Ranunculus gmelinii</i>
(I) Lapland Buttercup	<i>Ranunculus lapponicus</i>
(D) Lapland Rosebay	<i>Rhododendron lapponicum</i>
(D) Wild Petunia	<i>Ruellia humilis</i>
(D) Sand Dune Willow	<i>Salix cordata</i>
(I) Satiny Willow	<i>Salix pellita</i>
(I) Hall's Bulrush	<i>Schoenoplectus hallii</i>
(G) Netted Nut-rush	<i>Scleria reticularis</i>
(G) Small Skullcap	<i>Scutellaria parvula</i> var. <i>parvula</i>
(E) Low Spike-moss	<i>Selaginella selaginoides</i>
(I) Fire Pink	<i>Silene virginica</i>
(E) Blue-stemmed Goldenrod	<i>Solidago caesia</i>
(D) Lake Huron Tansy	<i>Tanacetum bipinnatum</i> ssp. <i>huronense</i>
(D) Hairy Meadow Parsnip	<i>Thaspium chapmanii</i>
(E) Heartleaf Foamflower	<i>Tiarella cordifolia</i>
(I) Purple False Oats	<i>Trisetum melicoides</i>
(D) Dwarf Bilberry	<i>Vaccinium cespitosum</i>
(D) Mountain Cranberry	<i>Vaccinium vitis-idaea</i>
(D) Squashberry	<i>Viburnum edule</i>
(D) Sand Violet	<i>Viola sagittata</i> var. <i>ovata</i>

THREATENED

(E) Northern Monkshood*	<i>Aconitum noveboracense</i>
(G) Muskroot	<i>Adoxa moschatellina</i>
(G) Roundstem Foxglove	<i>Agalinis gattereri</i>
(G) Round-leaved Orchis	<i>Amerorchis rotundifolia</i>
(E) Woolly Milkweed	<i>Asclepias lanuginosa</i>
(G) Dwarf Milkweed	<i>Asclepias ovalifolia</i>
(H) Prairie Milkweed	<i>Asclepias sullivantii</i>
(G) Pinnatifid Spleenwort	<i>Asplenium pinnatifidum</i>
(G) Kitten Tails	<i>Besseyia bullii</i>
(I) Sand Reedgrass	<i>Calamovilfa longifolia</i> var. <i>magna</i>
(H) Large Water Starwort	<i>Callitriche heterophylla</i>
(H) Calypso Orchid	<i>Calypso bulbosa</i>
(D) Carey's Sedge	<i>Carex careyana</i>
(H) Beautiful Sedge	<i>Carex concinna</i>
(H) Coast Sedge	<i>Carex exilis</i>
(G) Handsome Sedge	<i>Carex formosa</i>
(D) Elk Sedge	<i>Carex garberi</i>

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PLANTS cont.

(E) Lenticular Sedge	<i>Carex lenticularis</i>
(H) Michaux's Sedge	<i>Carex michauxiana</i>
(D) Hill's Thistle	<i>Cirsium hillii</i>
(D) Dune Thistle*	<i>Cirsium pitcheri</i>
(D) Rams-head Lady's-slipper	<i>Cypripedium arietinum</i>
(D) White Lady's-slipper	<i>Cypripedium candidum</i>
(D) English Sundew	<i>Drosera anglica</i>
(E) Linear-leaved Sundew	<i>Drosera linearis</i>
(G) Pale Purple Coneflower	<i>Echinacea pallida</i>
(E) Beaked Spike-rush	<i>Eleocharis rostellata</i>
(D) Thickspike Wheatgrass	<i>Elymus lanceolatus</i> (= <i>Elytrigia dasystachya</i>) ssp. <i>psammophilus</i>
(G) Forked Aster	<i>Eurybia furcata</i>
(D) Western Fescue	<i>Festuca occidentalis</i>
(G) Blue Ash	<i>Fraxinus quadrangulata</i>
(D) Round Fruited St. John's Wort	<i>Hypericum sphaerocarpum</i>
(H) Dwarf Lake Iris*	<i>Iris lacustris</i>
(H) Slender Bush Clover	<i>Lespedeza virginica</i>
(E) Bladderpod	<i>Lesquerella ludoviciana</i>
(D) Broad-leaved Twayblade	<i>Listera convallarioides</i>
(E) Brittle Prickly Pear	<i>Opuntia fragilis</i>
(D) Clustered Broomrape	<i>Orobanche fasciculata</i>
(I) Plains Ragwort	<i>Packera indecora</i>
(E) Marsh Grass-of-Parnassus	<i>Parnassia palustris</i>
(D) Sweet Colt's-foot	<i>Petasites sagittatus</i>
(H) Pale Green Orchid	<i>Platanthera flava</i> var. <i>herbiola</i>
(D) Braun's Holly Fern	<i>Polystichum braunii</i>
(D) Prairie-parsley	<i>Polytaenia nuttallii</i>
(G) Algae-leaved Pondweed	<i>Potamogeton confervoides</i>
(G) Cliff Cudweed	<i>Pseudognaphalium saxicola</i>
(E) Seaside Crowfoot	<i>Ranunculus cymbalaria</i>
(E) Long-beaked Bald-rush	<i>Rhynchospora scirpoides</i>
(I) Canadian Gooseberry	<i>Ribes oxycanthoides</i> ssp. <i>oxycanthoides</i>
(I) Tea-leaved Willow	<i>Salix planifolia</i> ssp. <i>planifolia</i>
(I) Dune Goldenrod	<i>Solidago simplex</i> var. <i>gilmanii</i>
(E) Clustered Bur-reed	<i>Sparganium glomeratum</i>
(E) Sheathed Pondweed	<i>Stuckenia vaginata</i>
(D) False Asphodel	<i>Triantha glutinosa</i>
(I) Tufted Bulrush	<i>Trichophorum cespitosum</i>
(E) Snow Trillium	<i>Trillium nivale</i>
(E) Spike Trisetum	<i>Trisetum spicatum</i>
(E) Marsh Valerian	<i>Valeriana uliginosa</i>

** also Federally Endangered

* also Federally Threatened