

ATTACHMENT D

VEGETATION PLANTING PLAN FOR N-9B, N-13 AND SA-10 WITH CANDIDATE SPECIES AND PLANTING DENSITIES

MINE AREA N-9B

1. UPLAND FOREST - ACRES OF HABITAT TO BE ESTABLISHED: 41

Trees - Total average density of 300/acre

Slash Pine (*Pinus elliottii*)
Laurel Oak (*Quercus laurifolia*)
Southern Red Ceder (*Juniperus silicicola*)
Live Oak (*Quercus virginiana*)
Sweetgum (*Liquidambar styraciflua*)
American Holly (*Ilex opaca*)
Pignut Hickory (*Carya glabra*)
Redbud (*Cercis canadensis*) - Delayed until overstory shading
Dogwood (*Cornus florida*) - Delayed until overstory shading
Black Cherry (*Prunus serotina*) - Natural recruitment
Cabbage Palm (*Sabal palmetto*)

Shrubs - Total average density of 240/acre

Saw Palmetto (*Serenoa repens*)
Wax Myrtle (*Myrica cerifera*)
Beautyberry (*Callicarpa americana*)
Yaupon Holly (*Ilex vomitoria*)
Wild Olive (*Osmanthus americanus*)
Shining Sumac (*Rhus copallina*)
Hawthorne (*Crataegus* spp.)
Blueberry (*Vaccinium* spp.)
Groundsel Tree (*Baccharis halimifolia*) - Natural recruitment

Grasses, Forbs and Vines - 80 percent of ground cover

Eastern Gamagrass (*Tripsacum dactyloides*)
Panicum (*Panicum* spp.)
Blackberry (*Rubus* spp.) - Natural recruitment
Virginia Creeper (*Parthenocissus quinquefolia*) - Natural recruitment
Greenbriar (*Smilax* spp.) - Natural recruitment
Wild Grape (*Vitis munsoniana*) - Natural recruitment
Wood Fern (*Thelypteris* spp.) - Natural recruitment

2. SHRUB/BRUSHLAND - ACRES OF HABITAT TO BE ESTABLISHED: 23

Shrubs - Total average density of 240/acre

Saw Palmetto (*Serenoa repens*)
Wax Myrtle (*Myrica cerifera*)

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Beautyberry (*Callicarpa americana*)
Yaupon Holly (*Ilex vomitoria*)
Wild Olive (*Osmanthus americanus*)
Shining Sumac (*Rhus copallina*)
Groundsel Tree (*Baccharis halimifolia*) - Natural recruitment

Grasses, Forbs and Vines - 80 percent of ground cover
Eastern Gamagrass (*Tripsacum dactyloides*)
Panicum (*Panicum* spp.)
Blackberry (*Rubus* spp.) - Natural recruitment
Virginia Creeper (*Parthenocissus quinquefolia*) - Natural recruitment
Greenbriar (*Smilax* spp.) - Natural recruitment
Wild Grape (*Vitis munsoniana*) - Natural recruitment
Wood Fern (*Thelypteris* spp.) - Natural recruitment

3. RANGELAND - ACRES OF HABITAT TO BE ESTABLISHED: 6

Grasses, Forbs and Vines - 100 percent of ground cover
Eastern Gamagrass (*Tripsacum dactyloides*)
Panicum (*Panicum* spp.)
Bluestems (*Andropogon* spp.)
Lopsided Indiangrass (*Sorghastrum secundum*)
Blackberry (*Rubus* spp.) - Natural recruitment
Partridge Pea (*Cassia chamaecrista*)
Wild Grape (*Vitis munsoniana*) - Natural recruitment
Hairy Indigo (*Indigofera hirsuta*) - Natural recruitment
Aster (*Aster* spp.) - Natural recruitment

4. PINE FLATWOODS - ACRES OF HABITAT TO BE ESTABLISHED: 27

Trees - Total average density of 200/acre
Slash Pine (*Pinus elliottii*)
Longleaf Pine (*Pinus palustris*)
Persimmon (*Diospyros virginiana*)

Shrubs - Total average density of 200/acre
Saw Palmetto (*Serenoa repens*)
Wax Myrtle (*Myrica cerifera*)
Beautyberry (*Callicarpa americana*)
Yaupon Holly (*Ilex vomitoria*)
Gallberry (*Ilex glabra*)
Fetterbush (*Lyonia lucida*)
Blueberry (*Vaccinium* spp.)

Grasses, Forbs and Vines - 80 percent of ground surface
Eastern Gamagrass (*Tripsacum dactyloides*)

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Panicum (Panicum spp.)
Bluestems (Andropogon spp.)
Lopsided Indiangrass (Sorghastrum secundum)
Blackberry (Rubus spp.) - Natural recruitment
Greenbriar (Smilax spp.) - Natural recruitment
Partridge Pea (Cassia fasciculata)
Wild Grape (Vitis munsoniana) - Natural recruitment
Aeschynomene (Aeschynomene spp.)

5. SHRUB WETLAND - ACRES OF HABITAT TO BE ESTABLISHED: 25

Shrubs - Total average density of 300/acre
Buttonbush (Cephalanthus occidentalis)
Dahoon Holly (Ilex cassine)
Elderberry (Sambucus simpsonii)
Swamp Dogwood (Cornus foemina)
Swamp Hibiscus (Hibiscus grandiflorus)
Groundsel Tree (Baccharis halimifolia) - Natural recruitment
Carolina Willow (Salix caroliniana) - Natural recruitment
Wax Myrtle (Myrica cerifera) - Natural recruitment

Grasses, Forbs and Vines - 100 percent of ground surface

Panicum (Panicum spp.)
Lizard's Tail (Saururus cernuus)
Sedge (Carex spp. and Cyperus spp.)
Royal Fern (Osmunda regalis)
Cinnamon Fern (Osmunda cinnamomea)
Sawgrass (Cladium jamaicense)
Duck Potato (Sagittaria spp.)
Golden Ragwort (Senecio glabellus) - Natural recruitment
Wood Fern (Thelypteris spp.) - Natural recruitment
Wild Grape (Vitis munsoniana) - Natural recruitment
Camphorweed (Pluchea spp.) - Natural recruitment
Cow Pea (Vigna luteola) - Natural recruitment

6. FRESHWATER MARSH (HERBACEOUS WETLAND) - ACRES OF HABITAT TO BE ESTABLISHED: 79

Groundcover - 50 percent of remaining available ground surface

Panicum (Panicum spp.)
Sedge (Carex spp. and Cyperus spp.)
Sawgrass (Cladium jamaicense)
St. John's Wort (Hypericum fasciculatum)
Spike Rush (Eleocharis spp.)
Soft Rush (Juncus effusus)
Black Rush (Juncus repens)

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Bullrush (*Scirpus* spp.)
Swamp Lily (*Crinum americanum*)
Spider Lily (*Hymenocallis* spp.)
Pickerelweed (*Pontederia cordata*)
Arrowroot (*Thalia geniculata*)
Canna Lily (*Canna* spp.)
Duck Potato (*Sagittaria* spp.)
Spatterdock (*Nuphar lutea*)
Water Lily (*Nymphaea* spp.)

7. ISLANDS AND OVERBURDEN MOUNDS - ACRES OF HABITAT TO BE ESTABLISHED: 6

Vegetation in these areas will require minimal to no plantings. They will either be overburden mounds left intact or constructed mounds tapered into the slough.

MINE AREA N-13

1. WETLAND MIXED FOREST - ACRES OF HABITAT TO BE ESTABLISHED: 13

Trees - Total Average Density

Red Maple (*Acer rubrum*)
Sugerberry (*Celtis laevigata*)
Pop Ash (*Fraxinus caroliniana*)
Bald Cypress (*Taxodium distichum*)
Red Mulberry (*Morus rubra*)
Water oak (*Quercus nigra*)

Shrubs - Total average density of 300/acre

Buttonbush (*Cephalanthus occidentalis*)
Dahoon Holly (*Ilex cassine*)
Elderberry (*Sambucus simpsonii*)
Swamp Dogwood (*Cornus foemina*)
Swamp Hibiscus (*Hibiscus grandiflorus*)
Wild Olive (*Osmanthus americanus*)
Groundsel Tree (*Baccharis halimifolia*) - Natural recruitment

Grasses, Forbes and Vines - 100 percent of ground cover

Panicum (*Panicum* spp.)
Lizard's Tail (*Saururus cernuus*)
Sedge (*Carex* spp. and *Cyperus* spp.)
Royal Fern (*Osmunda regalis*)
Cinnamon Fern (*Osmunda cinnamomea*)
Wood Fern (*Thelypteris* spp.) - Natural recruitment
Wild Grape (*Vitis munsoniana*) Natural recruitment

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2. SHRUB WETLAND - ACRES OF HABITAT TO BE ESTABLISHED: 14

Shrubs - Total average density of 300/acre

Buttonbush (*Cephalanthus occidentalis*)

Dahoon Holly (*Ilex cassine*)

Elderberry (*Sambucus simpsonii*)

Swamp Dogwood (*Cornus foemina*)

Swamp Hibiscus (*Hibiscus grandiflorus*)

Groundsel Tree (*Baccharis halimifolia*) - Natural recruitment

Carolina Willow (*Salix caroliniana*) - Natural recruitment

Wax Myrtle (*Myrica cerifera*) - Natural recruitment

Grasses, Forbs and Vines - 50 percent of remaining available ground surface

Panicum (*Panicum* spp.)

Lizard's Tail (*Saururus cernuus*)

Sedge (*Carex* spp. and *Cyperus* spp.)

Royal Fern (*Osmunda regalis*)

Cinnamon Fern (*Osmunda cinnamomea*)

Sawgrass (*Cladium jamaicense*)

Duck Potato (*Sagittaria* spp.)

Golden Ragwort (*Senecio glabellus*) - Natural recruitment

Wood Fern (*Thelypteris* spp.) - Natural recruitment

Wild Grape (*Vitis munsoniana*) - Natural recruitment

Camphorweed (*Pluchea* spp.) - Natural recruitment

Cow Pea (*Vigna luteola*) - Natural recruitment

Water Lily (*Nymphaea* spp.)

3. PALMETTO PRAIRIE - ACRES OF HABITAT TO BE ESTABLISHED: 268

Shrubs - Total average density of 50/acre

Saw Palmetto (*Serenoa repens*)

Wax Myrtle (*Myrica cerifera*)

Gallberry (*Ilex cassine*)

Fetterbush (*Lyonia lucida*)

Blueberry (*Vaccinium* spp.)

Grasses, Forbs and Vines - 100 percent of remaining ground cover

Eastern Gamagrass (*Tripsacum dactyloides*)

Panicum (*Panicum* spp.)

Bluestems (*Andropogon* spp.)

Lopsided Indiangrass (*Sorghastrum secundum*)

Blackberry (*Rubus* spp.) - Natural recruitment

Greenbriar (*Smilax* spp.) - Natural recruitment

Partridge Pea (*Cassia chamaecrista*)

Aeschynomene (*Aeschynomene* spp.) - Natural recruitment

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MINE AREA SA-10

1. RANGELAND -ACRES OF HABITAT TO BE ESTABLISHED: 83.6

Grasses, Forbs and Vines - 100 percent of ground cover

Eastern Gamagrass (*Tripsacum dactyloides*)

Panicum (*Panicum* spp.)

Bluestems (*Andropogon* spp.)

Lopsided Indiangrass (*Sorghastrum secundum*)

Blackberry (*Rubus* spp.) - Natural recruitment

Partridge Pea (*Cassia chamaecrista*)

Wild Grape (*Vitis munsoniana*) - Natural recruitment

Hairy Indigo (*Indigofera hirsuta*) - Natural recruitment

Aster (*Aster* spp.) - Natural recruitment

2. FRESHWATER MARSH (herbaceous wetland) - ACRES OF HABITAT TO BE ESTABLISHED: 90

Groundcover - 50 percent of remaining available ground surface

Panicum (*Panicum* spp.)

Sedge (*Carex* spp. and *Cyperus* spp.)

Sawgrass (*Cladium jamaicense*)

St. John's Wort (*Hypericum fasciculatum*)

Spike Rush (*Eleocharis* spp.)

Soft Rush (*Juncus effusus*)

Black Rush (*Juncus repens*)

Bullrush (*Scirpus* spp.)

Swamp Lily (*Crinum americanum*)

Spider Lily (*Hymenocallis* spp.)

Pickeralweed (*Pontederia cordata*)

Arrowroot (*Thalia geniculata*)

Canna Lily (*Canna* spp.)

Duck Potato (*Sagittaria* spp.)

Spatterdock (*Nuphar lutea*)

Water Lily (*Nymphaea* spp.)

3. SHRUB/BRUSHLAND - ACRES OF HABITAT TO BE ESTABLISHED: 21.6

Shrubs - Total average density of 240/acre

Saw Palmetto (*Serenoa repens*)

Wax Myrtle (*Myrica cerifera*)

Beautyberry (*Callicarpa americana*)

Yaupon Holly (*Ilex vomitoria*)

Wild Olive (*Osmanthus americanus*)

Shining Sumac (*Rhus copallina*)

Groundsel Tree (*Baccharis halimifolia*) - Natural recruitment

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Grasses, Forbs and Vines - 80 percent of ground cover
Eastern Gamagrass (*Tripsacum dactyloides*)
Panicum (*Panicum* spp.)
Blackberry (*Rubus* spp.) - Natural recruitment
Virginia Creeper (*Parthenocissus quinquefolia*) - Natural recruitment
Greenbriar (*Smilax* spp.) - Natural recruitment
Wild Grape (*Vitis munsoniana*) - Natural recruitment
Wood Fern (*Thelypteris* spp.) - Natural recruitment

4. UPLAND FOREST - ACRES OF HABITAT TO BE ESTABLISHED: 65.8

Trees - Total average density of 300/acre
Slash Pine (*Pinus elliottii*)
Laurel Oak (*Quercus laurifolia*)
Southern Red Ceder (*Juniperus silicicola*)
Live Oak (*Quercus virginiana*)
Sweetgum (*Liquidambar styraciflua*)
American Holly (*Ilex opaca*)
Pignut Hickory (*Carya glabra*)
Redbud (*Cercis canadensis*) - Delayed until overstory shading
Dogwood (*Cornus florida*) - Delayed until overstory shading
Black Cherry (*Prunus serotina*) - Natural recruitment
Cabbage Palm (*Sabal palmetto*)

Shrubs - Total average density of 240/acre
Saw Palmetto (*Serenoa repens*)
Wax Myrtle (*Myrica cerifera*)
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Wild Olive (*Osmanthus americanus*)
Shining Sumac (*Rhus copallina*)
Hawthorne (*Crataegus* spp.)
Blueberry (*Vaccinium* spp.)
Groundsel Tree (*Baccharis halimifolia*) - Natural recruitment

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Virginia Creeper (*Parthenocissus quinquefolia*) - Natural recruitment
Greenbriar (*Smilax* spp.) - Natural recruitment
Wild Grape (*Vitis munsoniana*) - Natural recruitment
Wood Fern (*Thelypteris* spp.) - Natural recruitment

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EXOTIC AND NUISANCE PLANT LISTS

Exotic Plant List

Brazilian Pepper (*Schinus terebinthifolius*)
Water Lettuce (*Pistia stratiotes*)
Cogon Grass (*Imperata brasiliensis* & *cylindrica*)
Caeser's Weed (*Urena lobata*)
Kudzu (*Pueraria montana*)
Lantana (*Lantana camara*)
Japanese Climbing Fern (*Lygodium japonicum*)
Melaleuca (*Melaleuca quinquenervia*)
Australian Pine (*Casuarina equisetifolia*)

Nuisance Plant List

Cattail (*Typha* spp.)
Primrose Willow (*Ludwigia peruviana*)
Climbing Hempvine (*Mikania scandens*)
Water Hyacinth (*Eichornia crassipes*)