



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41006

Entry Year 2019

Acreage: 1,171

County Schoolcraft

Management Area: Fox River Complex

Revision Date: 2017-06-12

Stand Examiner: Peter Holodnick

Legal Description:

T45N, R13W, Sec. 25-28, 35

Identified Planning Goals:

Soil and topography:

There is a wide variety of soil types within the compartment. The soil type for the majority of the upland is Neconish-Wainola-Kinross Complex 0-6% slopes, and the soil type for the majority of the lowlands is Dawson, Greenwood and Loxley soils.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

The Seney National Wildlife Refuge borders the west side of the compartment; the south and east sides are bordered by privately owned land, and the north side of the compartment is mainly bordered by state owned land.

Unique Natural Features:

Currently under review by Michigan Natural Features Inventory (MNFI).

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

HCVA - Fox River

Watershed and Fisheries Considerations:

This compartment has the Manistique River, Holland Ditch, and Holland Creek flowing through it. The Manistique River is classified as a non-trout water. The fisheries community consists of walleye, smallmouth bass, northern pike, sunfish, yellow perch, sucker spp., and minnow spp. Standard BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations:

This compartment lies east of M-77 and north of Ten Curves Road. The Manistique River is the dominant feature coursing through the southeast portion of the compartment. Pre-settlement data indicates that the upland forest contained a mix of hemlock, white pine, and jack pine with lesser amounts of sugar maple, beech, basswood, and aspen. Lowland forests contained primarily black spruce and tamarack with smaller amounts of cedar and elm.

The current lowland forest contains basically the same species composition as the circa 1850 forest. The uplands show a significant increase in red pine and aspen.

The wildlife habitat management regime consists of facilitating the expansion of hemlock within the compartment, providing age and structural diversity within the aspen community, promoting naturally structured upland conifer stands and increasing hard mast availability.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel, coarse-textured till and peat and muck. The glacial drift thickness varies between 10 and 100 feet. The Silurian Manitoulin Dolomite and Ordovician Queenston Shale and Big Hill Dolomite subcrop below the glacial drift. The Manitoulin and Big Hill could be used for stone. Gravel pits are not found in the general area and potential appears to be limited. There is no commercial oil and gas production in the UP.

Vehicle Access:

A portion of the compartment is not accessible by vehicle, due to lack of bridges.

Survey Needs:

Much of the proposed cutting cannot be completed without survey.

Recreational Facilities and Opportunities:

There are no DNR recreational facilities within the compartment; but the area is heavily used for hunting.

Fire Protection:

Portions of Sections 26 and 27 of this compartment lie within the Fox River Zone Dispatch Area. Lack of bridges makes access to fires in the east part of the compartment difficult.

Additional Compartment Information:

The following reports from the Inventory are attached:

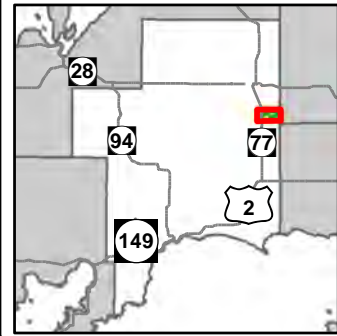
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

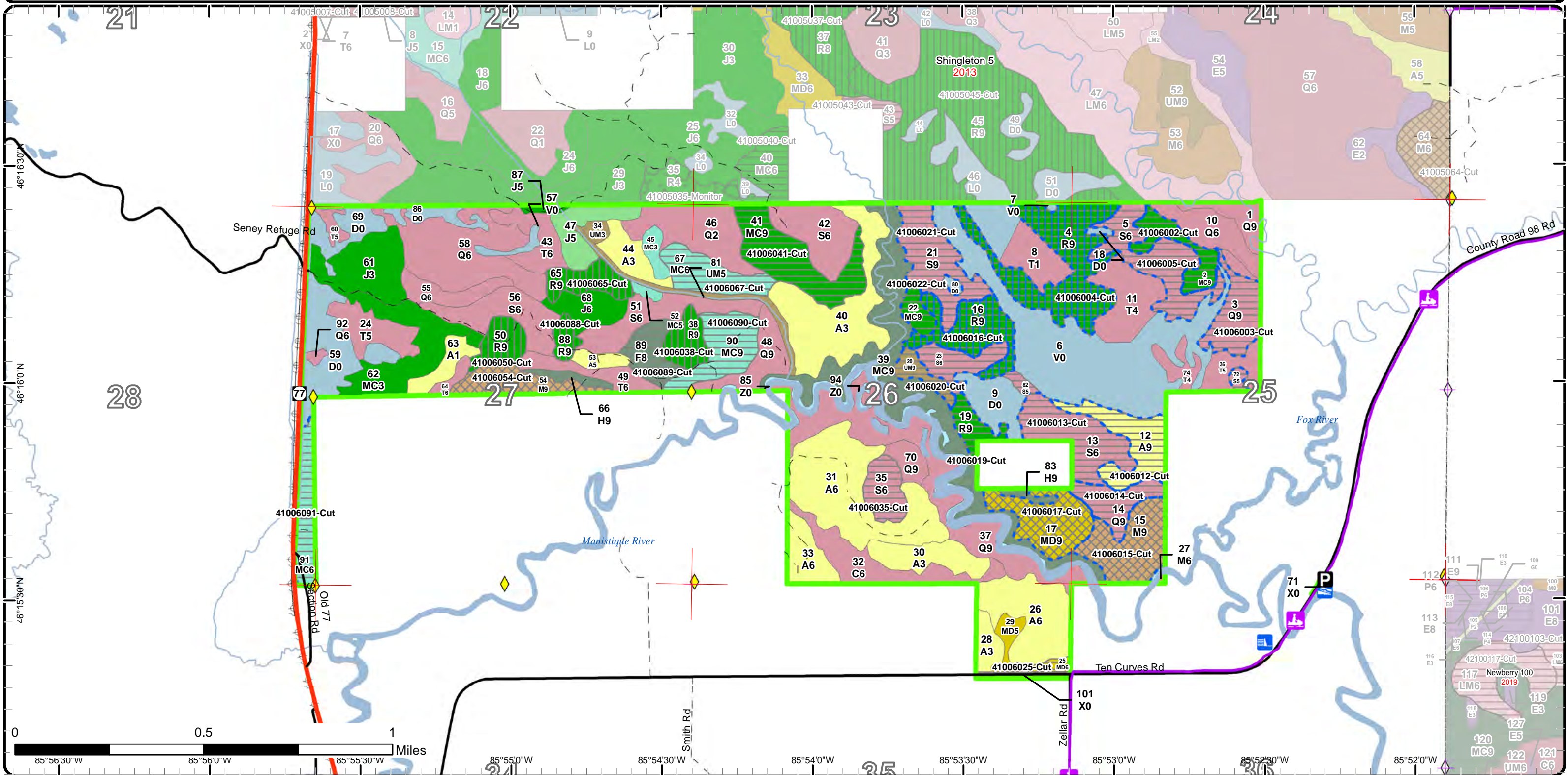
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 6
 T45N,R13W, Sec: 25-28
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Fox River Complex
 YOE: 2019
 Acres: 1170.9 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/23/2017
 Map Phase: Review

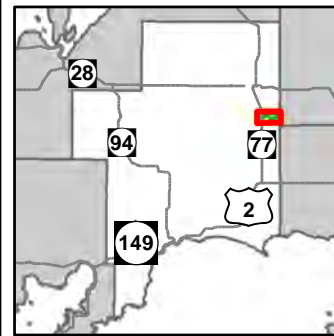


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
- Dams
- Boating Access Site
- P Parking Lot
- Snowmobile Trails
- Designated Snowmobile Trails
- Highway
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Streams
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 500 - Water
- 622 - Lowland Shrub
- Lakes

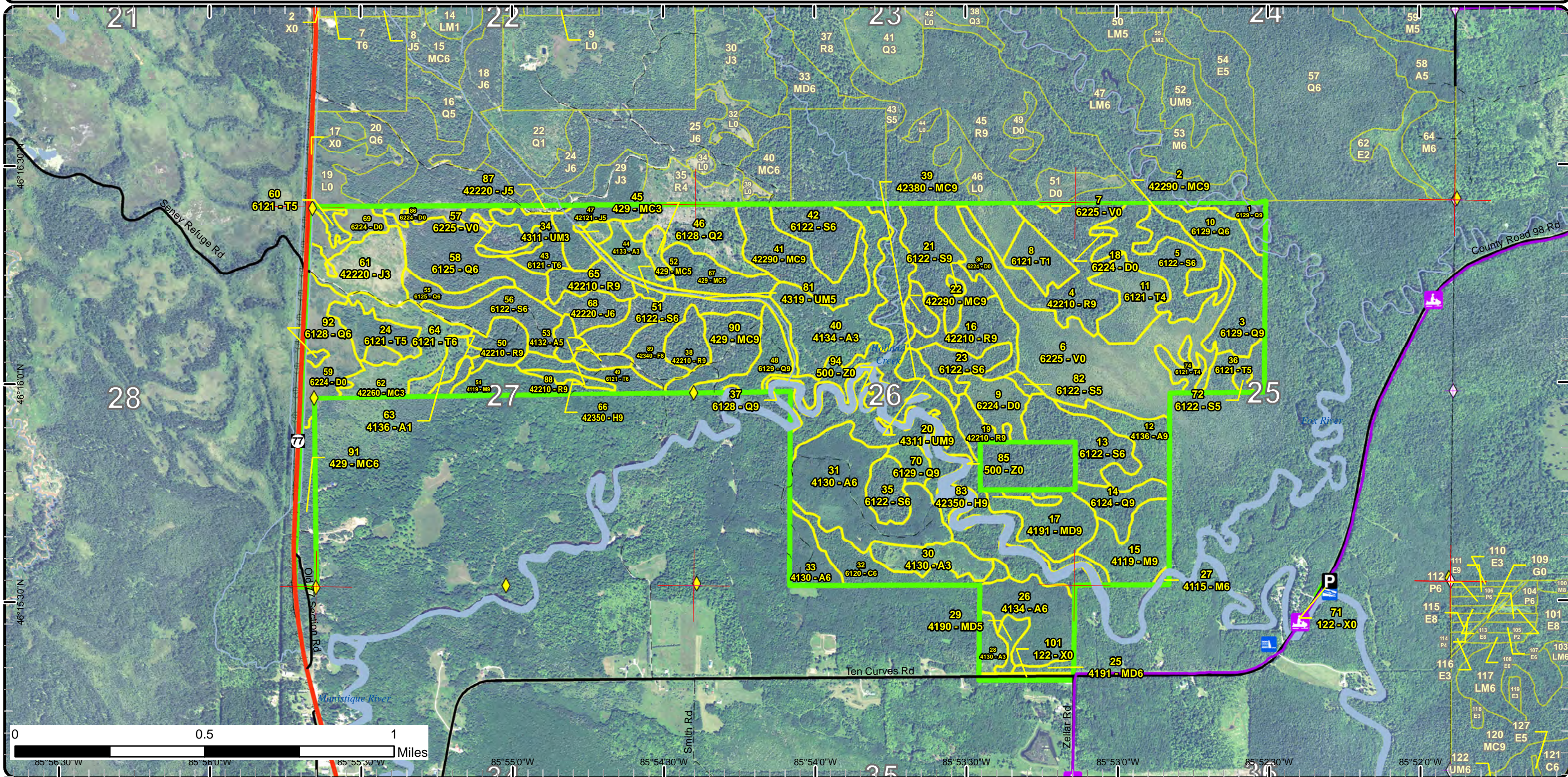


Stand Boundary Map

Compartment: 6
 T45N,R13W, Sec: 25-28
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Fox River Complex
 YOE: 2019
 Acres: 1170.9 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/23/2017
 Map Phase: Review

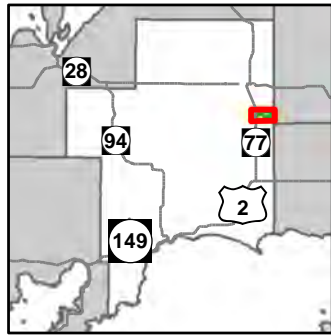


- | | | |
|--------------------------------|------------------------|---------------------------------|
| — Miris Corners | — Gravel Roads | 612 - Lowland Coniferous Forest |
| — Remonumented Section Corners | — Poor Dirt Roads | 122 - Roads/Parking Lot |
| ◆ Survey Grade GPS Corners | — Streams | 500 - Water |
| ◇ Field Grade GPS Corners | — Lakes and Rivers All | 622 - Lowland Shrub |
| — Counties | — Powerline | |
| — Dams | — Compartment Boundary | 411 - Northern Hardwood |
| — Boating Access Site | — Stand Boundaries | 413 - Aspen |
| — Parking Lot | | 419 - Mixed Upland Deciduous |
| — Snowmobile Trails | | 421 - Planted Pines |
| — Designated Snowmobile Trails | | 422 - Natural Pines |
| — Highway | | 423 - Other Upland Conifers |
| — Paved Roads | | 429 - Mixed Upland Conifers |
| | | 430 - Upland Mixed Forest |

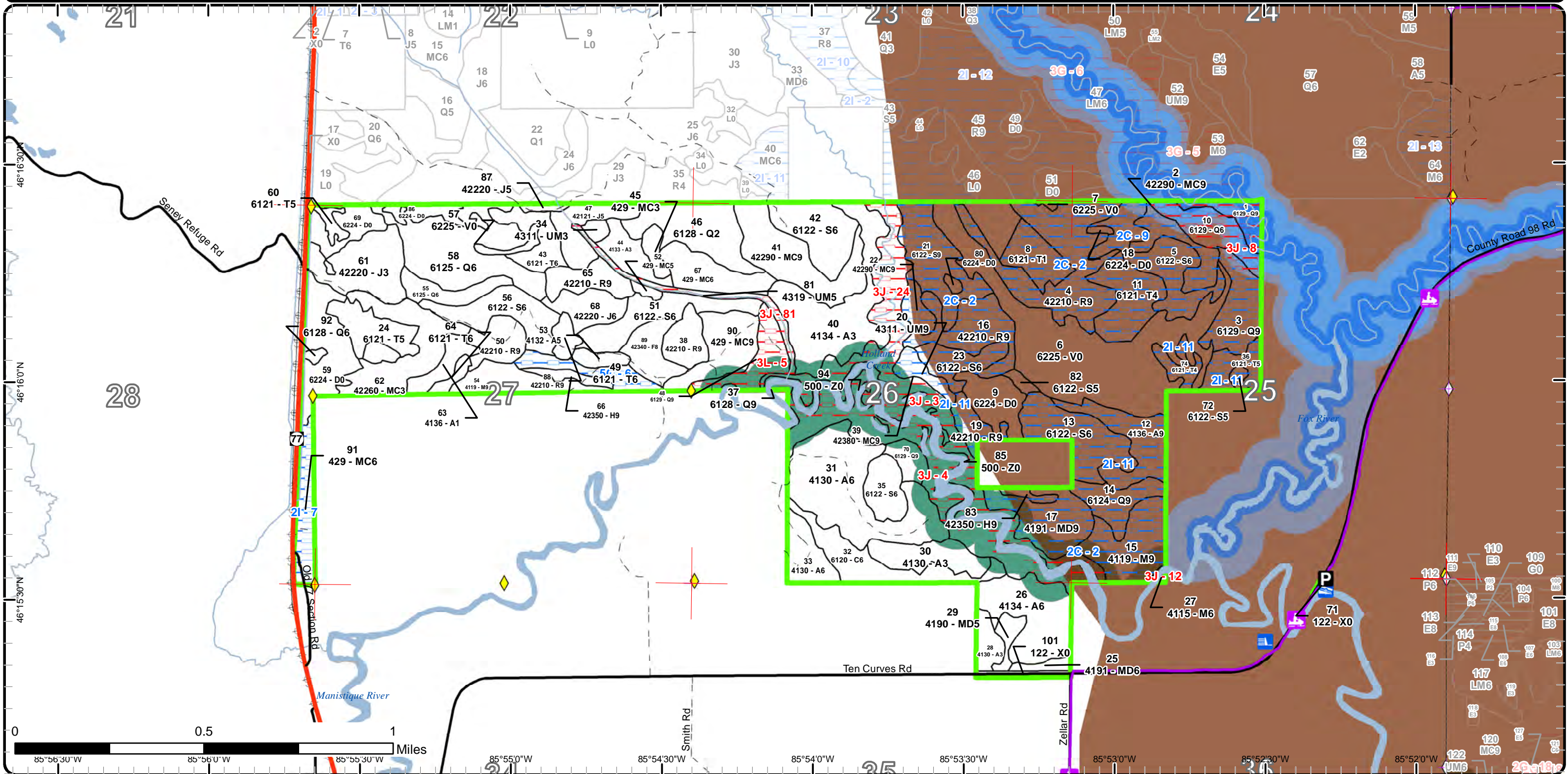


Special Conservation Areas & Site Conditions Map

Compartment: 6
 T45N,R13W, Sec: 25-28
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Fox River Complex
 YOE: 2019
 Acres: 1170.9 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/23/2017
 Map Phase: Review



- | | | |
|---|---|--|
| <ul style="list-style-type: none"> — Miris Corners + Remonumented Section Corners ◆ Survey Grade GPS Corners ◇ Field Grade GPS Corners --- Counties ■ Dams ⚓ Boating Access Site P Parking Lot ⚡ Snowmobile Trails — Designated Snowmobile Trails — Highway — Paved Roads | <ul style="list-style-type: none"> — Gravel Roads — Poor Dirt Roads — Streams — Lakes and Rivers All ⊕ Powerline — Compartment Boundary — Available w/ Constraints — Unavailable 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate) 2I: Survey needed 5C: Delay treatment for age/size class diversity or exceptional site quality | <ul style="list-style-type: none"> 3J: Water quality / BMPs (stream, river, or lake) 3L: Other wildlife concerns □ Stand Boundaries ■ Natural Rivers Vegetative Buffer ■ Natural Rivers Zoning District ■ High Priority Trout Stream Buffer ■ Deer Winter Range ■ Habitat Corridor |
|---|---|--|





Age Class

| | Non-Forest | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 100-109 | 110-119 | 120-129 | 130-139 | 140-149 | 150+ | Uneven-Aged | Total |
|------------------------|------------|------------|----------|-----------|-----------|-----------|-----------|------------|------------|-----------|-----------|----------|----------|----------|----------|----------|----------|-------------|-------------|
| Aspen | 0 | 35 | 0 | 47 | 46 | 4 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 176 |
| Bog | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| Hemlock | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Jack Pine | 0 | 22 | 0 | 12 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| Lowland Conifers | 0 | 23 | 0 | 0 | 0 | 9 | 0 | 37 | 75 | 7 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 176 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 54 | 0 | 0 | 69 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 147 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 27 |
| Natural Mixed Pines | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 66 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 35 |
| Red Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 63 | 98 |
| Tamarack | 0 | 0 | 0 | 0 | 0 | 3 | 32 | 3 | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 81 |
| Treed Bog | 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| Upland Conifers | 0 | 4 | 0 | 0 | 0 | 0 | 15 | 62 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 98 |
| Upland Mixed Forest | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Upland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Urban | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Water | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| Total | 172 | 110 | 0 | 59 | 46 | 82 | 47 | 114 | 262 | 81 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 188 | 1172 |



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 6

Total Compartment Acres: 1,171

Commercial Harvest - 128
 Harvests with Site Condition - 268
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

| | Clearcut | Selection | Patch Clearcut | Seed Tree | Shelterwood | Thinning | Overstory Removal | Salvage | Other | Total Acres |
|------------------------|------------|-----------|----------------|-----------|-------------|----------|-------------------|----------|----------|-------------|
| Aspen | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Lowland Conifers | 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| Lowland Spruce/Fir | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 93 |
| Mixed Upland Deciduous | 3 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| Natural Mixed Pines | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 |
| Northern Hardwood | 0 | 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| Red Pine | 7 | 0 | 0 | 59 | 32 | 0 | 0 | 0 | 0 | 97 |
| Upland Conifers | 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 44 |
| Upland Mixed Forest | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Upland Spruce/Fir | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Total | 250 | 56 | 0 | 59 | 32 | 0 | 0 | 0 | 0 | 396 |

Proposed and Next Step Treatments by Method

| | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|--------------|------------|-----------|-----------|----------|----------|-----------|------------|----------|-----------------|-------------|
| Current | 396 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 396 |
| Next Step | 0 | 15 | 15 | 0 | 0 | 7 | 380 | 0 | 0 | 417 |
| Total | 396 | 15 | 15 | 0 | 0 | 7 | 380 | 0 | 0 | 813 |



| S t a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|-------------------|-------|---|-------------------|--------------|-------------|-------------------|-----------------------------|---------------------------------------|------------------|--------------------|
| 2 | 41006002-Cut | 11.0 | 42290 - Natural Mixed Pine | Sawtimber Well | 77 | 111- 140 | Harvest | Clearcut with Retention | 429 - Mixed Upland Conifers | Even-Aged | Proposal |
| Habitat Cut: No | | | Site Condition: Engineered Bridge Needed | | | | | | | | |
| <u>Prescription</u> Clear cut with retention. No cut Hemlock, Cedar and Oak if present. Retention is in the fox river buffer. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Any tree species currently on site. | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |
| 3 | 41006003-Cut | 15.0 | 6129 - Mixed Coniferous Lowland Forest | Sawtimber Well | 77 | 111- 140 | Harvest | Clearcut with Retention | 613 - Lowland Mixed Forest | Uneven- Aged | Proposal |
| Habitat Cut: No | | | Site Condition: Survey Needed | | | | | | | | |
| <u>Prescription</u> Clear cut with retention. Do not cut Hemlock, Cedar and Oak if present. Leave 3-10% retention. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Any tree species | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> This stand is very wet. A survey needs to be done. | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |
| 4 | 41006004-Cut | 39.4 | 42210 - Natural Red Pine | Sawtimber Well | 87 | 171- 200 | Harvest | Seed Tree with Retention | 429 - Mixed Upland Conifers | Uneven- Aged | Proposal |
| Habitat Cut: No | | | Site Condition: Engineered Bridge Needed | | | | | | | | |
| <u>Prescription</u> Mark to 30-50 BA. Focus your marking on over mature pine (16-18" DBH and greater). Cut all Black Spruce and Red Maple. Leave 3-10% retention. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Any tree species | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |
| 5 | 41006005-Cut | 24.3 | 6122 - Black Spruce Poletimber | Well | 87 | 111- 140 | Harvest | Clearcut with Retention | 612 - Lowland Coniferous Forest | Even-Aged | Proposal |
| Habitat Cut: No | | | Site Condition: Engineered Bridge Needed | | | | | | | | |
| <u>Prescription</u> Clear cut with retention. No cut Hemlock, Cedar, and Oak if present. Retention is in the fox river buffer. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Mix of trees currently found in this area | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |



| S t a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|-------------------|-------|--------------------------------------|-------------------|--------------|-------------|-------------------|----------------------------|-------------------------------|------------------|--------------------|
| 12 | 41006012-Cut | 18.0 | 4136 - Aspen, Mixed Conifer | Sawtimber Well | 77 | 81-110 | Harvest | Clearcut with Retention | 4319 - Mixed Upland Forest | Uneven- Aged | Proposal |
| Habitat Cut: No | | | Site Condition: Survey Needed | | | | | | | | |
| <u>Prescription</u> Cut all trees except Hemlock and Oak. leave 3-10% retention. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Any tree species | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |
| 13 | 41006013-Cut | 22.6 | 6122 - Black Spruce Well | Poetimber Well | 77 | 141- 170 | Harvest | Clearcut with Retention | 613 - Lowland Mixed Forest | Even-Aged | Proposal |
| Habitat Cut: No | | | Site Condition: Survey Needed | | | | | | | | |
| <u>Prescription</u> Cut all trees except hemlock and oak. Leave 3-10% retention in the south portion of the stand where it is thick to cedar. Cut Cedar only for operability | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Any tree species | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |
| 14 | 41006014-Cut | 11.8 | 6124 - Lowland Spruce-Fir | Sawtimber Well | 77 | 111- 140 | Harvest | Clearcut with Retention | 613 - Lowland Mixed Forest | Even-Aged | Proposal |
| Habitat Cut: No | | | Site Condition: Survey Needed | | | | | | | | |
| <u>Prescription</u> Cut all trees except Hemlock and Oak. Leave a retention pocket 3-10% in the northwest corner of stand where it is thick to cedar. Cut Cedar only for operability. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Any tree species | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |
| 15 | 41006015-Cut | 22.0 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 99 | 171- 200 | Harvest | Group Selection | 411 - Northern Hardwood | Uneven- Aged | Proposal |
| Habitat Cut: No | | | Site Condition: Survey Needed | | | | | | | | |
| <u>Prescription</u> Mark down to 80 BA. Mark trees with poor form and deformities. Cut all Spruce, Balsam Fir, and Aspen. No cut Hemlock and Oak. Cut cedar only for access. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Northern Hardwoods | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |



| S t a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|---|-------------------|-------|--|-------------------|--------------|-------------|-------------------|-----------------------------|-------------------------------|------------------|--------------------|
| 16 | 41006016-Cut | 19.4 | 42210 - Natural Red Pine | Sawtimber Well | 77 | 141- 170 | Harvest | Seed Tree with Retention | 4319 - Mixed Upland Forest | Even-Aged | Proposal |
| Habitat Cut: No | | | Site Condition: Engineered Bridge Needed | | | | | | | | |
| <u>Prescription</u> Leave tree mark to between 10-30 BA of large diameter Red and White Pine. No cut Hemlock and Oak. Retention will be in the leave trees. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Any tree species | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |
| 17 | 41006017-Cut | 20.3 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 77 | 111- 140 | Harvest | Group Selection | 411 - Northern Hardwood | Uneven- Aged | Proposal |
| Habitat Cut: No | | | Site Condition: Survey Needed | | | | | | | | |
| <u>Prescription</u> Mark down to 80 BA. Mark trees with poor form and deformities. Cut all Spruce, Balsam Fir, and Aspen. No cut Hemlock and Oak. Cut cedar | | | | | | | | | | | |
| <u>Specs:</u> only for access. | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Northern Hardwood regen | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |
| 19 | 41006019-Cut | 6.6 | 42210 - Natural Red Pine | Sawtimber Well | 77 | 81-110 | Harvest | Clearcut | 4319 - Mixed Upland Forest | Even-Aged | Proposal |
| Habitat Cut: No | | | Site Condition: Survey Needed | | | | | | | | |
| <u>Prescription</u> Clear cut no retention due to size. No cut hemlock and Oak | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder/Mechanical | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Any Tree species | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |
| 20 | 41006020-Cut | 5.3 | 4311 - Pine, Aspen Mix | Sawtimber Well | 77 | 141- 170 | Harvest | Clearcut | 4319 - Mixed Upland Forest | Even-Aged | Proposal |
| Habitat Cut: No | | | Site Condition: Engineered Bridge Needed | | | | | | | | |
| <u>Prescription</u> Clear cut no retention due to size. No cut Hemlock and Oak. | | | | | | | | | | | |
| <u>Specs:</u> | | | | | | | | | | | |
| <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) | | | | | | | | | | | |
| <u>Treatments:</u> | | | | | | | | | | | |
| <u>Acceptable</u> Any tree species | | | | | | | | | | | |
| <u>Regen:</u> | | | | | | | | | | | |
| <u>Other</u> | | | | | | | | | | | |
| <u>Comment:</u> | | | | | | | | | | | |
| <u>Proposed Start Date:</u> 10/01/2018 | | | | | | | | | | | |



| S t a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-----------------------|----------------|-------|---------------------|----------------|-----------|----------|----------------|-------------------------|----------------------|---------------|-----------------|
| 21 | 41006021-Cut | 22.7 | 6122 - Black Spruce | Sawtimber Well | 79 | 81-110 | Harvest | Clearcut with Retention | 6122 - Black Spruce | Even-Aged | Proposal |

Habitat Cut: No **Site Condition: Engineered Bridge Needed**

Prescription Cut all trees except Hemlock and Oak. leave 3-10% retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|----------------------------|----------------|----|---------|---------|----------|----------------------------|-----------|----------|
| 22 | 41006022-Cut | 4.9 | 42290 - Natural Mixed Pine | Sawtimber Well | 77 | 141-170 | Harvest | Clearcut | 4319 - Mixed Upland Forest | Even-Aged | Proposal |
|----|--------------|-----|----------------------------|----------------|----|---------|---------|----------|----------------------------|-----------|----------|

Habitat Cut: No **Site Condition: Engineered Bridge Needed**

Prescription Clear cut no retention due to size. No cut Hemlock and Oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|------|---------------------|-----------------|----|--------|---------|----------|---------------------|-----------|----------|
| 23 | 41006023-Cut | 10.2 | 6122 - Black Spruce | Poletimber Well | 79 | 81-110 | Harvest | Clearcut | 6122 - Black Spruce | Even-Aged | Proposal |
|----|--------------|------|---------------------|-----------------|----|--------|---------|----------|---------------------|-----------|----------|

Habitat Cut: No **Site Condition: Engineered Bridge Needed**

Prescription Cut all trees except Hemlock and Oak. Leave no retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|--|-----------------|----|---------|---------|----------|----------------------------|-----------|----------|
| 25 | 41006025-Cut | 2.6 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 80 | 111-140 | Harvest | Clearcut | 4319 - Mixed Upland Forest | Even-Aged | Proposal |
|----|--------------|-----|--|-----------------|----|---------|---------|----------|----------------------------|-----------|----------|

Habitat Cut: No **Site Condition:**

Prescription Clear cut no retention because of its small size. No cut Hemlock, Oak, and Cedar if present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any Tree Species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



| S t a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-----------------------|-------------------|-------|---------------------|-------------------|--------------|-------------|-------------------|---------------------|-------------------------|------------------|--------------------|
| 35 | 41006035-Cut | 10.0 | 6122 - Black Spruce | Poetimber Well | 72 | 111- 140 | Harvest | Clearcut | 6122 - Black Spruce | Even-Aged | Proposal |

Habitat Cut: No**Site Condition:**

Prescription Clear cut no retention due to size. Do not cut Hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|-----------------------------|-------------------|----|--------|---------|-------------|-------------------------------|-----------|----------|
| 38 | 41006038-Cut | 8.8 | 42210 - Natural Red Pine | Sawtimber Well | 79 | 81-110 | Harvest | Shelterwood | 4319 - Mixed Upland Forest | Even-Aged | Proposal |
|----|--------------|-----|-----------------------------|-------------------|----|--------|---------|-------------|-------------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Mark to between 40-60BA. No cut Hemlock and Oak. No need for any more retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any trees currently in the overstory would be acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|------|-------------------------------|-------------------|----|-------|---------|----------------------------|-------------------------------|-----------|----------|
| 41 | 41006041-Cut | 26.3 | 42290 - Natural Mixed Pine | Sawtimber Well | 86 | 51-80 | Harvest | Clearcut with Retention | 4319 - Mixed Upland Forest | Even-Aged | Proposal |
|----|--------------|------|-------------------------------|-------------------|----|-------|---------|----------------------------|-------------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Cut all trees except Hemlock and Oak. Also leave tree a few Red and White Pine. Leave 3-10% retention

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|-----------------------------|-------------------|----|-------------|---------|-------------|-----------------------------|-----------|----------|
| 50 | 41006050-Cut | 8.6 | 42210 - Natural Red Pine | Sawtimber Well | 84 | 111- 140 | Harvest | Shelterwood | 42110 - Planted Red Pine | Even-Aged | Proposal |
|----|--------------|-----|-----------------------------|-------------------|----|-------------|---------|-------------|-----------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Mark to between 40-60 BA of trees. No cut Hemlock and Oak. No other retention needed due to small size

Specs:

Next Step SitePrep, Trenching; Planting, Initial Plant

Treatments:

Acceptable Any Tree Species currently in the overstory would be acceptable.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



| S t a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-----------------------|----------------|-------|---------------------------------|----------------|-----------|----------|----------------|------------------|-------------------------|---------------|-----------------|
| 54 | 41006054-Cut | 13.2 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 87 | 111-140 | Harvest | Group Selection | 411 - Northern Hardwood | Uneven-Aged | Proposal |

Habitat Cut: No**Site Condition:**

Prescription Mark trees down to 80 BA. Mark trees with poor form and deformities. No cut Hemlock and Oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|------|--------------------------|----------------|----|---------|---------|-------------|-----------------------------|-----------|----------|
| 65 | 41006065-Cut | 10.2 | 42210 - Natural Red Pine | Sawtimber Well | 84 | 111-140 | Harvest | Shelterwood | 429 - Mixed Upland Conifers | Even-Aged | Proposal |
|----|--------------|------|--------------------------|----------------|----|---------|---------|-------------|-----------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Mark to 40-60 BA leaving some large diameter Red and White Pine. Cut all Jack pine. No cut Hemlock and Oak. No other retention needed due

Specs: to small size.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species in the overstory would be acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|------|-----------------------------|-----------------|----|---------|---------|-------------------------|----------------------------|-----------|----------|
| 67 | 41006067-Cut | 14.5 | 429 - Mixed Upland Conifers | Poletimber Well | 55 | 111-140 | Harvest | Clearcut with Retention | 4319 - Mixed Upland Forest | Even-Aged | Proposal |
|----|--------------|------|-----------------------------|-----------------|----|---------|---------|-------------------------|----------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Cut all trees except Hemlock and Oak. Leave 3-10% retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|---------------------|-------------------|----|--------|---------|----------|---------------------------------|-----------|----------|
| 72 | 41006072-Cut | 1.6 | 6122 - Black Spruce | Poletimber Medium | 70 | 81-110 | Harvest | Clearcut | 612 - Lowland Coniferous Forest | Even-Aged | Proposal |
|----|--------------|-----|---------------------|-------------------|----|--------|---------|----------|---------------------------------|-----------|----------|

Habitat Cut: No**Site Condition: Survey Needed**

Prescription Clear cut no retention because of small size. No cut Hemlock, Oak and Cedar if present.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species

Regen:

Other

This needs a survey.

Comment:

Proposed Start Date: 10/01/2018



| S t a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-----------------------|-------------------|-------|---------------------|------------------|--------------|-------------|-------------------|---------------------|---------------------------------------|------------------|--------------------|
| 82 | 41006082-Cut | 1.8 | 6122 - Black Spruce | Polett Medium | 77 | 51-80 | Harvest | Clearcut | 612 - Lowland Coniferous Forest | Even-Aged | Proposal |

Habitat Cut: No**Site Condition:**

Prescription Clear cut no retention due to size. No cut Hemlock and Oak.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|-----|-----------------------------|-------------------|----|-------------|---------|-------------|-------------------------------|-----------------|----------|
| 88 | 41006088-Cut | 3.9 | 42210 - Natural Red Pine | Sawtimber Well | 84 | 111- 140 | Harvest | Shelterwood | 4319 - Mixed Upland Forest | Uneven- Aged | Proposal |
|----|--------------|-----|-----------------------------|-------------------|----|-------------|---------|-------------|-------------------------------|-----------------|----------|

Habitat Cut: No**Site Condition:**

Prescription Mark trees down to between 30 to 60 BA. Focus your marking on the large 16-18 inch red and white pine. No other retention needed due to

Specs: small size.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any species in the overstory

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|------|------------------------------|---------------------|----|-------------|---------|----------------------------|-------------------------------|-----------|----------|
| 89 | 41006089-Cut | 10.6 | 42340 - Upland Spruce/Fir | Sawtimber Medium | 84 | 111- 140 | Harvest | Clearcut with Retention | 4319 - Mixed Upland Forest | Even-Aged | Proposal |
|----|--------------|------|------------------------------|---------------------|----|-------------|---------|----------------------------|-------------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Cut all tree species except Hemlock and Oak. Also leave tree mark a few large White and Red Pine. Leave 3-10% retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

| | | | | | | | | | | | |
|----|--------------|------|--------------------------------|-------------------|----|-------------|---------|----------------------------|-------------------------------|-----------|----------|
| 90 | 41006090-Cut | 17.1 | 429 - Mixed Upland Conifers | Sawtimber Well | 72 | 141- 170 | Harvest | Clearcut with Retention | 4319 - Mixed Upland Forest | Even-Aged | Proposal |
|----|--------------|------|--------------------------------|-------------------|----|-------------|---------|----------------------------|-------------------------------|-----------|----------|

Habitat Cut: No**Site Condition:**

Prescription Cut all trees except Hemlock and Oak. Also Leave tree mark a few White and Red Pine. Leave 3-10% retention.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



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| Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-----------------|-------|-----------------------------|-----------------|-----------|----------|----------------|-------------------------|----------------------------|---------------|-----------------|
| 91 41006091-Cut | 12.8 | 429 - Mixed Upland Conifers | Poletimber Well | 69 | 111-140 | Harvest | Clearcut with Retention | 4319 - Mixed Upland Forest | Even-Aged | Proposal |

Habitat Cut: No **Site Condition: Survey Needed**

Prescription Cut all trees except Hemlock and Oak. Leave 3-10% retention.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)
Treatments:

Acceptable Any tree species
Regen:

Other survey needed
Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 395.5**

Report 4 – Site Conditions

Shingleton Mgt. Unit
Peter Holodnick : Examiner

Compartment: 6
Year of Entry: 2019

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Dominant Site Conditions | Dominant Site Conditions | | | | | |
|----------------|--------------------|----------------|---------------|--------------------------|--------------------------|-----|----|-----|----|--|
| | | With Condition | Not Available | | 2C | 2I | 5C | 3J | 3L | |
| 175 | 157 | 18 | 0 | Aspen | | 18 | | | | |
| 88 | 88 | 0 | 0 | Bog | | | | | | |
| 19 | 19 | 0 | 0 | Cedar | | | | | | |
| 5 | 3 | 2 | 0 | Hemlock | | 2 | | | | |
| 45 | 45 | 0 | 0 | Jack Pine | | | | | | |
| 176 | 70 | 27 | 79 | Lowland Conifers | | 27 | | 67 | 12 | |
| 147 | 66 | 81 | 0 | Lowland Spruce/Fir | 57 | 24 | | | | |
| 27 | 7 | 20 | 0 | Mixed Upland Deciduous | | 20 | | | | |
| 66 | 50 | 16 | 0 | Natural Mixed Pines | 16 | | | | | |
| 36 | 13 | 22 | 0 | Northern Hardwood | 5 | 17 | | 0 | | |
| 98 | 32 | 65 | 0 | Red Pine | 59 | 7 | | | | |
| 81 | 28 | 53 | 0 | Tamarack | 29 | 14 | 9 | | | |
| 56 | 54 | 0 | 2 | Treed Bog | | | | 2 | | |
| 99 | 37 | 13 | 49 | Upland Conifers | | 13 | | 49 | | |
| 15 | 2 | 5 | 8 | Upland Mixed Forest | 5 | | | 8 | | |
| 11 | 11 | 0 | 0 | Upland Spruce/Fir | | | | | | |
| 3 | 3 | 0 | 0 | Urban | | | | | | |
| 25 | 25 | 0 | 0 | Water | | | | | | |
| 1,171 | 710 | 323 | 138 | Total Forested Acres | 172 | 142 | 9 | 126 | 12 | |
| | 61% | 28% | 12% | Relative Percent | | | | | | |

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

| Site No. | Dominant Site Cond Availability | Dominant Site Condition | Acres | Other Site Condition | Other Site Condition | Other Site Condition | Other Site Condition |
|------------------|---------------------------------|--|-------|----------------------|----------------------|----------------------|----------------------|
| 1 | Available | 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate) | 0 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| | | | | | | | |

Report 4 – Site Conditions

Shingleton Mgt. Unit
Peter Holodnick : Examiner

Compartment: 6
Year of Entry: 2019

| | | | | | | | |
|-------------------------------|-------------|--|-----|-------------|-------------|-------------|-------------|
| 2 | Available | 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate) | 136 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 3 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 28 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Manistique River | | | | | | | |
| 4 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 24 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 5 | Unavailable | 3L: Other wildlife concerns | 12 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 6 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 9 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Trees are small | | | | | | | |
| 7 | Available | 2I: Survey needed | 13 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Shingleton Mgt. Unit
Peter Holodnick : Examiner

Compartment: 6
Year of Entry: 2019

| | | | | | | | |
|--------------------------------------|--------------------|---|-----|--|--|-------------|-------------|
| 8 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 22 | 2I: Survey needed | 2D: Portable Bridge Needed (Dept. bridge will be adequate) | Unspecified | Unspecified |
| Comments: Fox river buffer | | | | | | | |
| 9 | Available | 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate) | 35 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 11 | Available | 2I: Survey needed | 129 | 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate) | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 12 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 0 | 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate) | 2I: Survey needed | Unspecified | Unspecified |
| Comments: Fox river buffer | | | | | | | |
| 24 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 20 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Shingleton Mgt. Unit

Compartment: 6

Peter Holodnick: Examiner

Year of Entry: 2019

| | | | | | | | |
|------------------|-------------|--|---|-------------|-------------|-------------|-------------|
| 81 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

| SCA Name | SCA Category | Detail Type | Recommendation | Acres |
|----------|--------------|-------------|----------------|-------|
|----------|--------------|-------------|----------------|-------|

Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

| Conservation Area | Type | Description |
|-------------------|----------------|---|
| SCA | Habitat Area | An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies. |
| SCA | Riparian Area | A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity. |
| HCVA | Natural Rivers | There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder. |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|--|-----------------|-------|-----------|----------|--|
| 1 | 6129 - Mixed Coniferous Lowland Forest | Sawtimber Well | 7.3 | 77 | 1-50 | OPIC - FMD: HCVA-Natural River, Fox River. Fox River flood plain with scattered trees, tall brush and grass/sedge. 98=cedar, hemlock and spruce soil=65 AuSable, Deford & Tawas Mucks, Frequently flooded; also 27A Hendrie-Anninias Complex 0-3% slopes |
| 2 | 42290 - Natural Mixed Pine | Sawtimber Well | 10.9 | 77 | 111-140 | Conifer/hardwood mix on slightly higher ground. Difficult access: need a bridge over Holland Creek, or a road through private. Regeneration of the same species mix is acceptable. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes |
| 3 | 6129 - Mixed Coniferous Lowland Forest | Sawtimber Well | 16.7 | 77 | 111-140 | Mix of conifers on lower ground. East property line was put in by private surveyor; accuracy is unknown. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes |
| 4 | 42210 - Natural Red Pine | Sawtimber Well | 39.4 | 87 | 171-200 | Scattered spruce Soil=37 Dawson, Greenwood and Loxley soils |
| 5 | 6122 - Black Spruce | Poletimber Well | 24.3 | 87 | 111-140 | OPIC - FMD: Difficult access: needs bridge across Holland Creek, or road through private. soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes; and 37 Dawson, Greenwood and Loxley soils |
| 8 | 6121 - Tamarack | Sapling Poor | 11.6 | 72 | 1-50 | Bog with leatherleaf and other brush species. Scattered spruce and tamarack. Soil=37 Dawson, Greenwood and Loxley soils |
| 10 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Well | 13.5 | 117 | 141-170 | Natural River, Fox River. Large diameter Hemlock, White Pine and Birch are within the stand. East private line was put in by private surveyor and its accuracy is unknown. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes |
| 11 | 6121 - Tamarack | Poletimber Poor | 17.9 | 72 | 1-50 | Bog with leatherleaf and other brush species. Scattered spruce and tamarack. Soil=37 Dawson, Greenwood and Loxley soils |
| 12 | 4136 - Aspen, Mixed Conifer | Sawtimber Well | 18.0 | 77 | 81-110 | East blue line was put in by private surveyor and accuracy is unknown. Difficult access: need bridge over Holland Creek or road through private. Regeneration of the same species mix is acceptable. 98=white pine, b.spruce. soil=525B Neconish-Wainola-Kinross complex 0-6% slopes |
| 13 | 6122 - Black Spruce | Poletimber Well | 22.6 | 77 | 141-170 | Difficult access: need bridge across Holland creek, or road through private. Adjacent to private property; survey needed. 98=white pine, cedar soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes and 36 Carbondale, Lupton & Tawas soils |
| 14 | 6124 - Lowland Spruce-Fir | Sawtimber Well | 11.8 | 77 | 111-140 | Difficult access: bridge needed across Holland creek, or road through private. Adjacent to private property; survey needed. Regeneration of the same species mix is acceptable. Soil=36 Carbondale, Lupton and Tawas soils |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|--|-------------------|-------|-----------|-------------|--|
| 15 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 22.0 | 99 | 171-200 | Difficult access: bridge across Holland Creek needed, or a road through private land far to the north. There is an old road through the stand. The east property line was put in by private surveyor; accuracy unknown. 98=b.fir, hemlock, white pine soil=34B Liminga Fine Sand 0-6% slopes and 34E 15-35% slopes |
| 16 | 42210 - Natural Red Pine | Sawtimber Well | 19.4 | 77 | 141-170 | Difficult access: bridge over Holland Creek needed, or road through private land to the north. 35/2=jack pine and white pine soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes |
| 17 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 20.3 | 77 | 111-140 | Difficult access: bridge across Holland Creek needed, or a road through private land far to the north. There is an old road through the stand. Adjacent to private property; survey needed. 98= Hemlock, Spruce, Cedar and White Pine soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes and 13D Kalkaska sand 6-15% slopes |
| 19 | 42210 - Natural Red Pine | Sawtimber Well | 6.6 | 77 | 81-110 | Follow BMP guidelines along the Manistique River. Difficult access: bridge needed across Holland Creek, or a road across private from the north. Stand is adjacent to private property; survey needed. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes |
| 20 | 4311 - Pine, Aspen Mix | Sawtimber Well | 5.3 | 77 | 141-170 | Follow BMP guidelines near Holland Creek and the Manistique River. Difficult access; bridge needed over Holland Creek, or a road from the north. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes |
| 21 | 6122 - Black Spruce | Sawtimber Well | 22.7 | 79 | 81-110 | Difficult access: bridge needed across Holland Creek, or a road through private to the north. Treat with C005 s 20 to the north. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes |
| 22 | 42290 - Natural Mixed Pine | Sawtimber Well | 4.9 | 77 | 141-170 | OPIC - FMD: Cut all trees except Hemlock. Leave some Red and White Pine for retention. Jack Pine is the preferred regeneration species, but a mix with other species similar to what is currently on site will be acceptable. Scarify or handplant to regenerate jack pine. Difficult access: bridge needed across Holland Creek, or a road through private to the north. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes |
| 23 | 6122 - Black Spruce | Poletimber Well | 10.2 | 79 | 81-110 | Difficult access: bridge over Holland Creek is needed, or road through private to the north. 35/2=red and white pine soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes |
| 24 | 6121 - Tamarack | Poletimber Medium | 12.3 | 53 | Unspecified | OPIC - FMD: Large bog next to M-77. Contains some small pockets of trees (b.spruce, tamarack). Soil=Markey Mucky Peat |
| 25 | 4191 - Mixed Upland Deciduous with Conifer | Poletimber Well | 2.6 | 80 | 111-140 | Narrow stand adjacent to 10 Curves Rd. Dense b.fir regeneration. Soil=Wallace Sand 15-35% slopes |
| 26 | 4134 - Aspen, Spruce/Fir | Poletimber Well | 26.0 | 33 | 81-110 | Aspen with b.fir, r.maple & spruce. Soil=Finch-Spot Complex 0-3% slopes and Wallace Sand 6-15% slopes |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|----------------------|-------|--------------|-------------|--|
| 27 | 4115 - Y.Birch, Hemlock NH | Poletimber Well | 0.4 | 67 | 111-140 | Very small stand, on the opposite side of the Manistique River than the rest of the state land. 98=hemlock, w.pine, b.fir 99=r.maple, cherry soil=67B Pelkie, occasionally flooded-Deford, frequently flooded complex, 0-6% slopes |
| 28 | 4130 - Aspen | Sapling Well | 5.8 | 5 | Immature | OPIC - FMD: Adjacent to 10 Curves Rd. There is an old trail road into the stand. Soil=Finch-Spot Complex 0-3% slopes. [4-7-10] Stand is now under contract TS 41-014-09-01 Beaver View. [4-28-12] Sale is now complete TCR dtd 4-16-12. |
| 29 | 4190 - Mixed Upland Deciduous with Cedar | Poletimber Medium | 3.9 | 67 | 51-80 | OPIC - FMD: Low, wet area with tall brush and a scattered trees. Adjacent to 10 Curves Rd. 91=b.ash, tamarack Soil=Carbondale-Lupton-Tawas Mucks |
| 30 | 4130 - Aspen | Sapling Well | 13.4 | 5 | Immature | OPIC - FMD: A mix of large Aspen and smaller conifers. Soil=Finch-Spot complex 0-3% slopes[4-7-10] Stand is now under contract TS 41-014-09-01 Beaver View. Sale is now complete TCR dtd 4-16-12. |
| 31 | 4130 - Aspen | Poletimber Well | 46.1 | 30 | Immature | OPIC - FMD: Rolling terrain. Aspen with some cherry, r.maple, b.fir, p.birch and beech. Soil=Paquin-Finch Sands 0-6% slopes and Wallace sand 6-15% & 15-35% slopes |
| 32 | 6120 - Lowland Cedar | Poletimber Well | 18.6 | 87 | 81-110 | OPIC - FMD: 98=hemlock, b.fir, w.pine 99=aspen, r.maple, birch soil= 36 Carbondale-Lupton-Tawas Mucks |
| 33 | 4130 - Aspen | Poletimber Well | 10.8 | 24 | Immature | OPIC - FMD: Aspen with other species including: cherry, b.fir, r.maple and p.birch. Soil=Paquin-Finch Sand 0-6% slopes and Wallace sand 15-35% slopes |
| 34 | 4311 - Pine, Aspen Mix | Sapling Well | 2.0 | 5 | Immature | Soil=Neconish-Kinross-Wainola Complex 0-6% slopes [4-28-12] Sale is now complete TCR dtd 4-16-12. (RH10/29/12) scarified summer of 2012 by holli . |
| 35 | 6122 - Black Spruce | Poletimber Well | 10.0 | 72 | 111-140 | OPIC - FMD: Scattered large white pine with other conifers (spruce, tamarack, hemlock). Soil=Finch-Spot Complex 0-3% slopes |
| 36 | 6121 - Tamarack | Poletimber Medium | 8.5 | 77 | 1-50 | OPIC - FMD: Mix of conifers on lower ground. East property line was put in by private surveyor; accuracy is unknown. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes |
| 37 | 6128 - Lowland Coniferous, Mixed Deciduous | Sawtimber Well | 39.3 | 75 | 81-110 | OPIC - FMD: Manistique River riparian zone; includes a steep bank and floodplain with old oxbows. Mix of conifers and hardwoods - species composition and BA varies. Soil=Pelkie, occasionally flooded-Deford frequently flooded Complex 0-6% slopes |
| 38 | 42210 - Natural Red Pine | Sawtimber Well | 8.8 | 79 | 81-110 | Soil=Neconish-Kinross-Wainola Complex 0-6% slopes |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-------|--|-------------------|-------|-----------|----------|---|
| 39 | 42380 - Non Pine Upland Conifer, Mixed Deciduous | Sawtimber Well | 48.8 | 65 | 111-140 | Riparian zone along the Manistique River and Holland creek - steep banks and floodplain. soil=Pelkie occasionally flooded-Deford frequently flooded Complex 0-6% slopes |
| 40 | 4134 - Aspen, Spruce/Fir | Sapling Well | 36.1 | 25 | Immature | OPIC - FMD: Aspen with b.spruce, j.pine, r.maple, etc. Between Holland Ditch and Holland Creek. Soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 41 | 42290 - Natural Mixed Pine | Sawtimber Well | 26.3 | 86 | 51-80 | There is aspen regeneration in the south portion of the stand. soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 42 | 6122 - Black Spruce | Poletimber Well | 18.5 | 45 | 1-50 | soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 43 | 6121 - Tamarack | Poletimber Well | 10.7 | 55 | 51-80 | soil=Neconish-Kinross-Wainola Complex 0-6% slopes. This should be ready to be put up next entry. |
| 44 | 4133 - Aspen, Mixed Pine | Sapling Well | 8.7 | 5 | Immature | OPIC - FMD: This stand contains a large variety of tree species. Cut all trees except w.pine, r.pine, hemlock, oak and cedar. Follow BMP guidelines for Holland Ditch buffer (stand 39). The Holland Ditch buffer, in combination with the leave trees, will be used to satisfy the retention guidelines. Aspen with a combination of species currently on site is acceptable for regeneration. 91=cherry, r.pine, w.pine, b.fir, r.maple soil=Neconish-Kinross-Wainola Complex 0-6% slopes [4-7-10] Stand is now under contract TS 41-014-09-01 Beaver View. Residual BA: White pine = 4; red pine = 3; total = 7 sq.ft./acre. [4-28-12] Sale is now complete TCR dtd 4-16-12. |
| 45 | 429 - Mixed Upland Conifers | Sapling Well | 3.7 | 5 | Immature | soil=Neconish-Kinross-Wainola Complex 0-6% slopes [4-7-10] Stand is now under contract TS 41-014-09-01 Beaver View. See also FTP C41-1414 (jack pine regeneration.) Residual BA: red pine = 2 sq.ft./acre. [4-28-12] Sale is now complete TCR dtd 4-16-12. RH10/29/12 scarified summer of 2012 by holli Fp regen check in 3 years per work instructions. |
| 46 | 6128 - Lowland Coniferous, Mixed Deciduous | Sapling Medium | 23.0 | 5 | Immature | soil=Neconish-Kinross-Wainola Complex 0-6% slopes [4-28-12] Sale is now complete TCR dtd 4-16-12. |
| 47 | 42121 - Planted Jack Pine, Mixed Deciduous | Poletimber Medium | 11.8 | 20 | Immature | Trenched and seeded in Oct 1997. A narrow buffer of trees was left along Holland Ditch. soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 48 | 6129 - Mixed Coniferous Lowland Forest | Sawtimber Well | 12.1 | 97 | 111-140 | Along Holland Ditch and the Manistique River. soil=Neconish-Kinross-Wainola Complex 0-6% slopes and Pelkie occasionally flooded-Deford frequently flooded Complex 0-6% slopes (near river) |
| 49 | 6121 - Tamarack | Poletimber Well | 9.4 | 59 | 51-80 | Low ground along the bottom of a hardwood ridge. soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 50 | 42210 - Natural Red Pine | Sawtimber Well | 9.6 | 84 | 111-140 | Ridges with red and white pine. soil=Neconish-Kinross-Wainola Complex 0-6% slopes |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|---|----------------------|-------|--------------|-------------|---|
| 51 | 6122 - Black Spruce | Poletimber Well | 17.5 | 40 | 1-50 | Near Holland Ditch. soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 52 | 429 - Mixed Upland Conifers | Poletimber Medium | 1.4 | 40 | 81-110 | Near Holland Ditch. soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 53 | 4132 - Aspen, Jack Pine | Poletimber Medium | 3.6 | 40 | 1-50 | soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 54 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 13.2 | 87 | 111-140 | Adjacent to private land. Hilly terrain. Soil=Liminga Fine Sand 0-6% & 15-35% slopes |
| 55 | 6125 - Lowland Black Spruce, Jack Pine | Poletimber Well | 8.6 | 40 | 1-50 | soil=Finch-Spot Complex and Rosseau Fine Sand 15-35% slopes |
| 56 | 6122 - Black Spruce | Poletimber Well | 17.7 | 40 | 1-50 | Soil=Markey Mucky Peat and Finch-Spot Complex 0-3% slopes |
| 58 | 6125 - Lowland Black Spruce, Jack Pine | Poletimber Well | 37.1 | 60 | 51-80 | Cut next entry. soil=Finch-Spot Complex 0-3% slopes |
| 60 | 6121 - Tamarack | Poletimber Medium | 2.6 | 67 | 1-50 | Cut next entry. Near M-77, surrounded by bog. Soil=Markey Mucky Peat |
| 61 | 42220 - Natural Jack Pine | Sapling Well | 22.1 | 5 | Immature | OPIC - FMD: Partially visible from M-77. soil=Neconish-Kinross-Wainola Complex 0-6% slopes and Finch-Spot Complex 0-3% slopes [4-7-10] Stand is now under contract TS 41-014-09-01 Beaver View. See also FTP C41-1414 (jack pine regeneration.) Residual BA: red & white pine = 1 sq.ft./acre. [4-28-12] Sale is now complete TCR dtd 4-16-12. (RH10/29/12) scarified summer of 2012 by holli Fp regen check in 3 years per work instructions. |
| 62 | 42260 - Natural Pine, Mixed Deciduous | Sapling Well | 24.1 | 5 | Immature | Adjacent to private property (to south), a survey request has been filed. Spruce with a mix of species similar to that currently on site will be acceptable for regeneration. 35=r.pine, w.pine soil=Neconish-Kinross-Wainola Complex 0-6% slopes and Markey Mucky Peat[4-7-10] Stand is now under contract TS 41-014-09-01 Beaver View. Residual BA: White pine = 1; red pine = 3; total = 4 sq.ft./acre.[4-28-12] Sale is now complete TCR dtd 4-16-12. |
| 63 | 4136 - Aspen, Mixed Conifer | Sapling Poor | 6.8 | 5 | Immature | soil=Neconish-Kinross-Wainola Complex 0-6% slopes & Markey Mucky Peat [4-7-10] Stand is now under contract TS 41-014-09-01 Beaver View. See also FTP C41-1414 (jack pine regeneration.) Residual BA: White pine = 8; red pine = 8; total = 16 sq.ft./acre. [4-28-12] Sale is now complete TCR dtd 4-16-12. (RH10/29/12) scarified summer of 2012 by holli Fp regen check in 3 years per work instructions. |
| 64 | 6121 - Tamarack | Poletimber Well | 2.7 | 40 | Unspecified | Low, wet ground. Soil=Markey Mucky Peat |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|-------------------|-------|--------------|-------------|--|
| 65 | 42210 - Natural Red Pine | Sawtimber Well | 10.2 | 84 | 111-140 | soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 66 | 42350 - Upland Hemlock | Sawtimber Well | 3.2 | 79 | 111-140 | Narrow stand of hemlock at bottom of hardwood hill. soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 67 | 429 - Mixed Upland Conifers | Poletimber Well | 14.5 | 55 | 111-140 | lots of small openings through out. soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 68 | 42220 - Natural Jack Pine | Poletimber Well | 10.0 | 48 | 51-80 | soil=Neconish-Kinross-Wainola Complex 0-6% slopes and Rosseau Fine Sand 15-35% slopes |
| 70 | 6129 - Mixed Coniferous Lowland Forest | Sawtimber Well | 5.4 | 80 | 111-140 | OPIC - FMD: Manistique River riparian zone; includes a steep bank and floodplain with old oxbows. Mix of conifers and hardwoods - species composition and BA varies. Soil=Pelkie, occasionally flooded-Deford frequently flooded Complex 0-6% slopes |
| 72 | 6122 - Black Spruce | Poletimber Medium | 1.6 | 70 | 81-110 | OPIC - FMD: Slightly higher ground with med-tall brush species including leatherleaf and alder. Soil=37 Dawson, Greenwood and Loxley soils |
| 74 | 6121 - Tamarack | Poletimber Poor | 5.2 | 77 | 1-50 | Low, wet ground with med-tall brush species including leatherleaf and alder. Old bog area filling in with trees. Soil=37 Dawson, Greenwood and Loxley soils |
| 81 | 4319 - Mixed Upland Forest | Poletimber Medium | 7.7 | 67 | 51-80 | Riparian zone along Holland Ditch - steep bank and area at top of bank. soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes |
| 82 | 6122 - Black Spruce | Poletimber Medium | 1.8 | 77 | 51-80 | Narrow stand that is slightly higher than the surrounding bog stands. |
| 83 | 42350 - Upland Hemlock | Sawtimber Well | 2.1 | 107 | 171-200 | OPIC - FMD: Adjacent to private property (lines are not in). Old road is near the property line. Soil=525B Neconish-Wainola-Kinross Complex 0-6% slopes |
| 87 | 42220 - Natural Jack Pine | Poletimber Medium | 1.6 | 40 | 1-50 | Grassy hill along a trail road with a few trees. Next to Holland Ditch. soil=Rosseau Fine Sand 15-35% slopes |
| 88 | 42210 - Natural Red Pine | Sawtimber Well | 3.9 | 84 | 111-140 | soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 89 | 42340 - Upland Spruce/Fir | Sawtimber Medium | 10.6 | 84 | 111-140 | soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 90 | 429 - Mixed Upland Conifers | Sawtimber Well | 17.1 | 72 | 141-170 | Scattered large red and white pine. soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 91 | 429 - Mixed Upland Conifers | Poletimber Well | 13.0 | 69 | 111-140 | Cut next entry. Narrow stand between M-77 and private land. Soil=Markey Mucky Peat. Consider selling this property to consolidate state land better. |

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Shingleton Mgt. Unit

Report 7 – Forested Stands

Compartment: 6
Year of Entry: 2019



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|--------------------|-------|--------------|-------------|---|
| 92 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 1.1 | 84 | 51-80 | Cut next entry year. Small group of trees within a bog, near M-77. Soil=Markey Mucky Peat |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|------------------------|-------|--------------|---|
| 6 | 6225 - Bog | 84.9 | No | Bog with leatherleaf and other brush species. Scattered spruce and tamarack. Soil=37 Dawson, Greenwood and Loxley soils |
| 7 | 6225 - Bog | 0.6 | No | Bog with leatherleaf and other brush species. Scattered spruce and tamarack. Soil=37 Dawson, Greenwood and Loxley soils |
| 9 | 6224 - Treed Bog | 12.5 | No | Bog with leatherleaf and other brush species. Scattered spruce and tamarack. Soil=37 Dawson, Greenwood and Loxley soils |
| 18 | 6224 - Treed Bog | 2.3 | No | |
| 57 | 6225 - Bog | 2.4 | No | Low, wet ground. soil=Neconish-Kinross-Wainola Complex 0-6% slopes |
| 59 | 6224 - Treed Bog | 24.0 | No | OPIC - FMD: Large bog next to M-77. Contains some small pockets of trees (b.spruce, tamarack). Soil=Markey Mucky Peat |
| 69 | 6224 - Treed Bog | 10.3 | No | Bog adjacent to M-77. Soil=Markey Mucky Peat |
| 71 | 122 - Road/Parking Lot | 0.5 | No | parking lot |
| 80 | 6224 - Treed Bog | 1.0 | No | Small bog, with scattered trees, within a spruce stand. Place retention area around this stand when cutting surrounding stand 21. Sol=37 Dawson, Greenwood and Loxley soils |
| 85 | 500 - Water | 23.7 | No | OPIC - FMD: Manistique River |
| 86 | 6224 - Treed Bog | 5.7 | No | OPIC - FMD: Bog with a few scattered trees (j.pine, b.spruce, tamarack). Soil=Markey Mucky Peat |
| 94 | 500 - Water | 1.0 | No | OPIC - FMD: Old oxbows of the Manistique River. |
| 101 | 122 - Road/Parking Lot | 2.8 | No | OPIC - FMD: Co P 498 R-O-W (10 curves Rd). |