



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 77

Entry Year 2015

Acreage: 1,541

County Schoolcraft

Management Area: Seney Manistique Swamp

Revision Date: 08/08/2013

Stand Examiner: Sheila Clark

Legal Description:

T42N R15W Sections 9,10,13-21

Identified Planning Goals:

Multiple resource management.

Soil and topography:

Topography is mostly flat in the swamp types, to slightly rolling in the hardwoods. Majority of the compartment is Rifle type soil.

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

The State ownership is very broken with private. Much of the private is Plum Creek and is being managed for timber.

Unique Natural Features:

There is the potential for wood turtles.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

No special management designations.

Watershed and Fisheries Considerations:

The Manistique River and Merwin Creek are designated as non-trout water through this area. A small sturgeon population is known to inhabit this portion of the Manistique River. There is no need to protect from encroachment by beaver, but protection from increased sand bedload is still a high priority. Fisheries Division stocks this section of the Manistique River with fingerling walleye.

Wildlife Habitat Considerations:

Bounded on the north and west by the Manistique River, this compartment lies within the Seney sand lake plain ecological sub-subsection. In 1850, the upland forest in this compartment was a mix of beech, sugar maple, hemlock and white birch. Balsam fir, white pine, and ironwood were present in lesser amounts. Lowland areas were characterized by large white cedar, tamarack, elm, and black spruce. Although forest age structure has likely changed, the current forest contains a similar mix of tree species as was found during the original survey. Wildlife habitat objectives include maintaining an old growth travel corridor along the Manistique River, and providing early successional deciduous and coniferous forests away from the river. Wildlife species of special interest potentially utilizing this compartment include white-tailed deer, river otter, and black bear. This compartment falls into the obligate winter deer range.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel thin to discontinuous over bedrock to the east and minor coarse-textured glacial till. The glacial drift thickness varies between 0 and 50 feet. The Silurian Burnt Bluff group and Cabothead Shale subcrop below the glacial drift. The Burnt Bluff is quarried for stone. The nearest gravel pits are located to the south and there appears to be some potential on the uplands. There is no commercial oil and gas production in the UP.

Vehicle Access:

Merwin Creek road provides access to stands in Section 13. In that area there is an RDR for a bridge that is used to access the eastern edge of the compartment. A lone 40 is accessed through private dirt road, no easement. The western portion of the compartment is accessed off Kendall Road. The State has easement through first 40 acres, but not through Plum Creek land.

Survey Needs:

Will need survey work in Section 20.

Recreational Facilities and Opportunities:

The Merwin Creek rustic campground is located within the eastern portion of this compartment. This campground is managed by Schoolcraft County under lease to the state. There is also a boat launch at the campground.

Fire Protection:

With current road systems and cover types there should be no problem.

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**

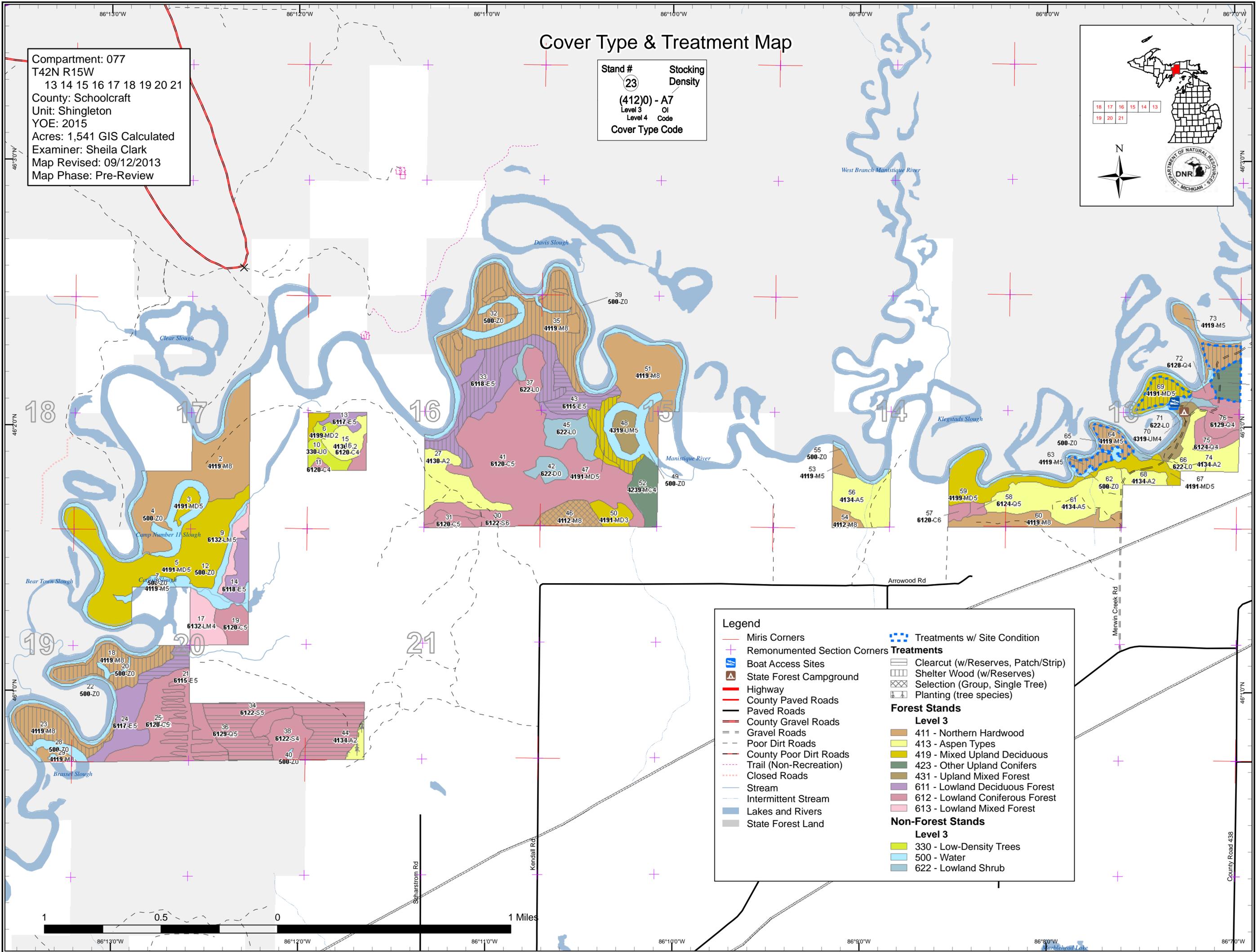
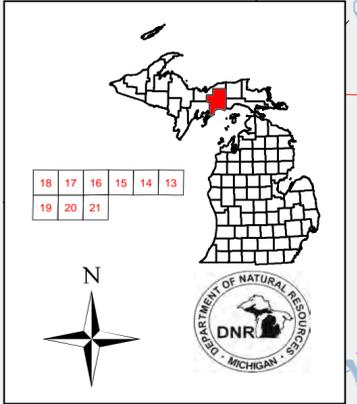
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatment Map

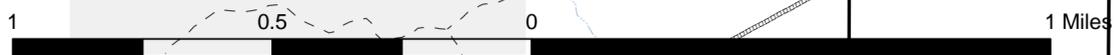
Compartment: 077
 T42N R15W
 13 14 15 16 17 18 19 20 21
 County: Schoolcraft
 Unit: Shingleton
 YOY: 2015
 Acres: 1,541 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 09/12/2013
 Map Phase: Pre-Review

Stand #
 23
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Miris Corners
- Remonumented Section Corners
- Boat Access Sites
- State Forest Campground
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land
- Treatments w/ Site Condition
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Selection (Group, Single Tree)
- Planting (tree species)
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub

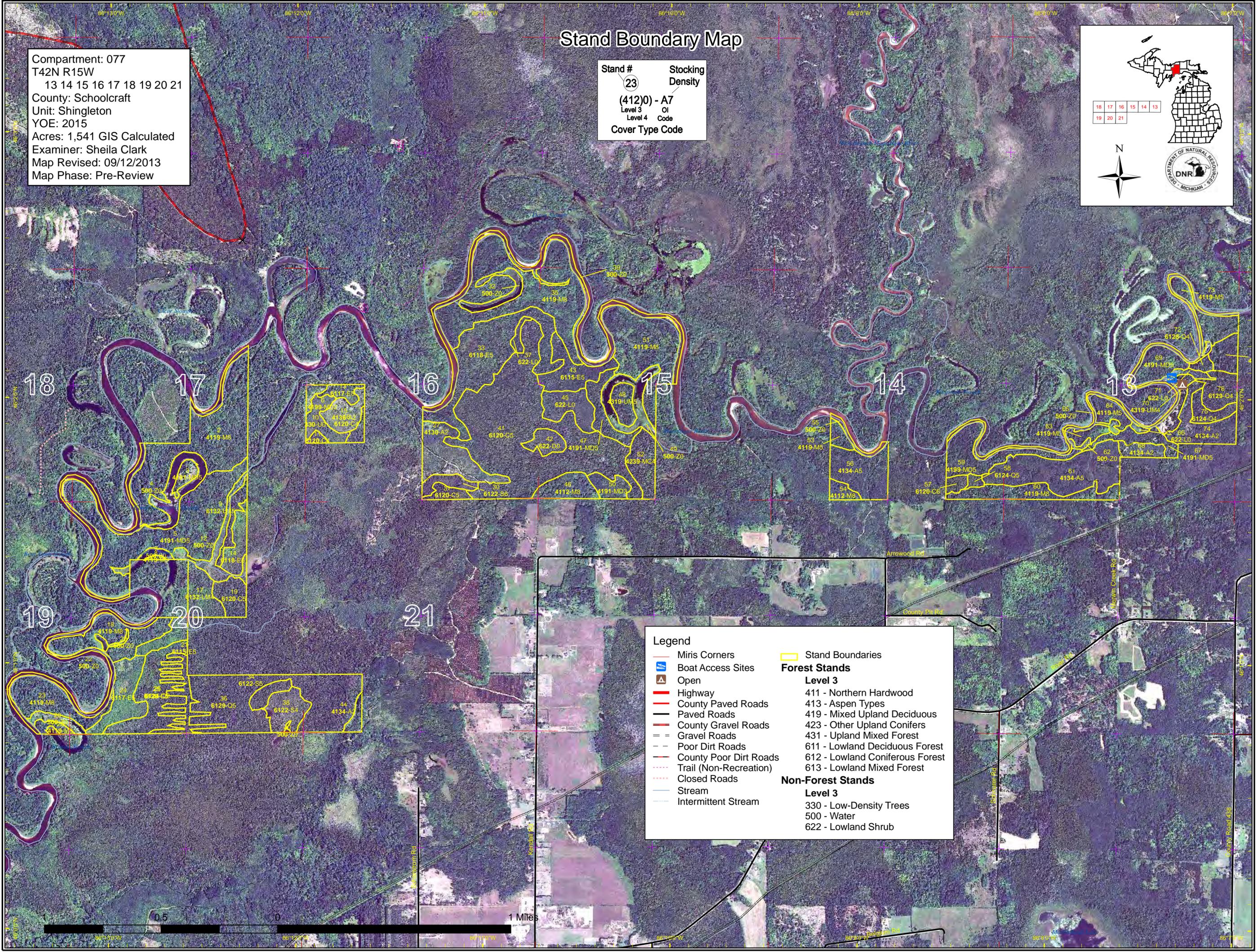
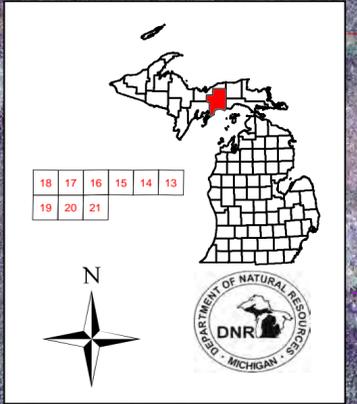


86°13'0"W 86°12'0"W 86°11'0"W 86°10'0"W 86°9'0"W 86°8'0"W 86°7'0"W

Stand Boundary Map

Compartment: 077
 T42N R15W
 13 14 15 16 17 18 19 20 21
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2015
 Acres: 1,541 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 09/12/2013
 Map Phase: Pre-Review

Stand #
 23
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Miris Corners
- Boat Access Sites
- Open
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Stand Boundaries

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

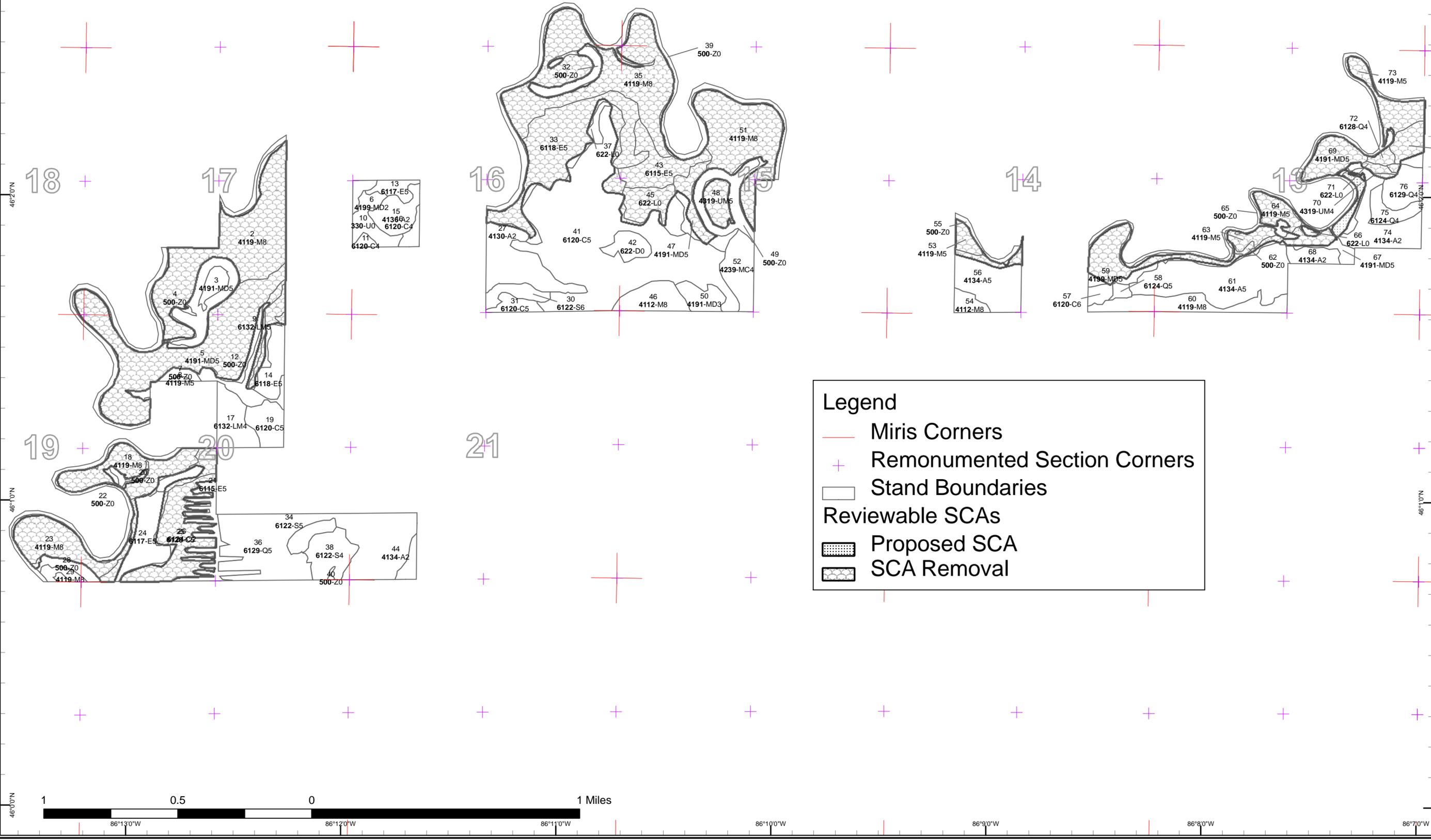
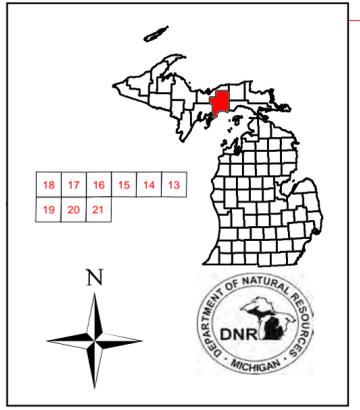
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub



Special Conservation Areas & Site Conditions Map

Compartment: 077
 T42N R15W
 13 14 15 16 17 18 19 20 21
 County: Schoolcraft
 Unit: Shingleton
 YOE: 2015
 Acres: 1,541 GIS Calculated
 Examiner: Sheila Clark
 Map Revised: 09/12/2013
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- Reviewable SCAs
- Proposed SCA
- SCA Removal



Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	12	44	76	29	0	0	0	0	0	0	0	0	0	0	161
Cedar	0	0	0	0	13	0	0	0	0	4	49	0	163	0	229
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Conifers	0	0	0	0	18	0	0	14	95	5	0	0	0	0	133
Lowland Deciduous	0	0	0	0	0	0	0	0	137	0	0	0	0	0	137
Lowland Mixed Forest	0	0	0	0	17	0	0	0	0	0	8	0	0	0	25
Lowland Shrub	26	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Spruce/Fir	0	0	0	0	0	0	0	8	0	0	24	0	0	0	32
Mixed Upland Deciduous	0	12	0	0	0	0	0	0	145	27	0	0	0	0	185
Northern Hardwood	0	0	0	0	0	0	0	0	236	15	127	0	0	0	377
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Conifers	0	0	0	0	0	0	0	0	11	0	0	17	0	0	28
Upland Mixed Forest	0	0	0	0	0	0	0	0	19	0	0	0	0	0	19
Water	170	0	0	0	0	0	0	0	0	0	0	0	0	0	170
Total	228	56	76	29	47	0	0	22	642	51	208	17	163	0	1541



Report 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2015

Compartment 077
Total Compartment Acres: 1,541

Acres by Treatment Type

Commercial Harvest - 342 Tree Planting - 4 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Lowland Coniferous Forest	74	0	0	0	0	0	74
Lowland Deciduous Forest	27	0	0	45	0	0	72
Mixed Upland Deciduous	0	0	0	23	0	0	23
Northern Hardwood	0	15	0	148	0	0	163
Other Upland Conifers	11	0	0	0	0	0	11
Total	111	15	0	215	0	0	342



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	41077018-Cut	27.2	4119 - Mixed Northern Hardwoods	Medium Density Log	82	111-140	Harvest	Shelterwood	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Thin stand to 50-60 sq ft/acre. This will promote hardwood regen and discourage balsam regen. Also will hopefully overwhelm deer. Harvest all ash. Leave oak, cedar and hemlock except for operability. 2 inch spec on balsam fir. Buffer river 50 feet.										
<u>Specs:</u>										
<u>Other</u> Harvest will occur in the winter. Harvest with stands 21, 23 & 36. May need crane mats to cross some of the swayles.										
<u>Comments:</u>										
<u>Next</u> Will need some survey work. Will need permission from Plum Creek to cross. Any present species are acceptable regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
21	41077021-Cut	9.6	6115 - Lowland Ash	Medium Density Pole	82	111-140	Harvest	Clearcut with Reserves	613 - Lowland Mixed Forest	Cmpt. Review Proposal
<u>Prescription</u> Harvest all ash. Leave cedar except for operability. Buffer creek in northeast corner if it falls within sale boundary.										
<u>Specs:</u>										
<u>Other</u> Harvest in the winter - very wet. May need crane mats. Harvest with stands 18, 23, & 36.										
<u>Comments:</u>										
<u>Next</u> Any regeneration is acceptable, if regen fails plan to seed with black spruce.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
23	41077023-Cut	21.6	4119 - Mixed Northern Hardwoods	Medium Density Log	82	111-140	Harvest	Shelterwood	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Thin stand to 50-60 sq ft/acre. This will promote hardwood regen and discourage balsam regen. Also will hopefully overwhelm deer. Harvest all ash. Leave oak, cedar and hemlock except for operability. 2 inch spec on balsam fir. Buffer the river and oxbows 50 feet.										
<u>Specs:</u>										
<u>Other</u> Harvest will occur in the winter. Harvest with stands 18, 21 & 36. May need crane mats to cross some of the swayles.										
<u>Comments:</u>										
<u>Next</u> A mix of any current species will be considered acceptable regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
33	41077033-Cut	44.8	6118 - Lowland Deciduous with Cedar	Medium Density Pole	85	81-110	Harvest	Shelterwood	613 - Lowland Mixed Forest	Cmpt. Review Proposal
<u>Prescription</u> Harvest all accessible ash and avoid as much cedar as possible when setting up harvest. Only remove cedar for operability. If needed make exclusions for pure cedar pockets. Thin remaining trees to 40 sq ft/acre. Buffer river 50 feet.										
<u>Specs:</u>										
<u>Other</u> Will need to build a road to this stand from the southwest. Access road will be no closer than 100 feet to river.										
<u>Comments:</u>										
<u>Next</u> .Any present species are acceptable regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
35	41077035-Cut	76.5	4119 - Mixed Northern Hardwoods	Medium Density Log	102	111-140	Harvest	Shelterwood	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Thin stand to 50-60 sq ft/acre. This will promote hardwood regen and discourage balsam regen. Also will hopefully overwhelm deer. Harvest all ash. Leave oak, cedar and hemlock except for operability. 2 inch spec on balsam fir. Buffer river and oxbows 50 feet.										
<u>Specs:</u>										
<u>Other</u> Harvest will occur in the winter. Minimize crossing swayles. Harvest with stands 33, 43, & 47.										
<u>Comments:</u>										
<u>Next</u> Any present species are acceptable regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
36	41077036-Cut	73.9	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	85	111-140	Harvest	Clearcut with Reserves	612 - Lowland Coniferous Forest	Cmpt. Review Proposal
<u>Prescription</u> Harvest all trees. Leave cedar except for operability. Harvest area will back off of strip cuts on west side.										
<u>Specs:</u>										
<u>Other</u> Will need to cross plum creek land to access and improve road. Harvest in the winter. Harvest with stands 18, 21 & 23.										
<u>Comments:</u>										
<u>Next</u> Will need survey work. Any present species are acceptable regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
43	41077043-Cut	17.2	6115 - Lowland Ash	Medium Density Pole	82		Harvest	Clearcut with Reserves	613 - Lowland Mixed Forest	Cmpt. Review Proposal
<u>Prescription</u> Harvest all trees. Leave cedar except for operability. Buffer river 50 feet.										
<u>Specs:</u>										
<u>Other</u> Not all of this stand will be harvested, but get as much ash as possible. Very wet, harvest in winter. Harvest with stands 33, 35 & 47.										
<u>Comments:</u>										
<u>Next</u> Any present species are acceptable regeneration. If regen fails will look at seeding with black spruce.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
46	41077046-Cut	15.0	4112 - Maple, Beech, Cherry Association	Medium Density Log	90	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<u>Prescription</u> Thin stand to 80-100 sq ft/acre. Harvest all beech except for wildlife and leave hemlock. The terrain is steep and there is a lot of advanced										
<u>Specs:</u> regeneration. Any present regeneration is acceptable.										
<u>Other</u> This stand would need to be accessed from private land to the south. Was harvested in the past. Try to avoid regen pockets.										
<u>Comments:</u>										
<u>Next</u> Will need to contact landowner. Any present species are acceptable regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
47	41077047-Cut	11.9	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	95	81-110	Harvest	Shelterwood	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
<u>Prescription</u> Remove all ash, thin remaining trees to 50-60 sq ft/acre. Leave hemlock and oak. Harvest balsam fir to 2 inch spec. Buffer oxbow 50 feet.										
<u>Specs:</u>										
<u>Other</u> Set up with stands 33, 35, & 43.										
<u>Comments:</u>										
<u>Next</u> Any present species are acceptable regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
44 41077044-Plant	4.4	4134 - Aspen, Spruce/Fir	Medium Density Sapling	7		Tree Planting	Hand Plant	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Plant large oak seedling in stand to improve deer habitat.

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2014

**Total Treatment
Acreage Proposed: 302.2**

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
63 41077063-Cut	5.5	4119 - Mixed Northern Hardwoods	Medium Density Pole	107	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Cmpt. Review Proposal

Prescription Thin stand to 50-60 sq ft/acre. This will promote hardwood regen and discourage balsam regen. Also will hopefully overwhelm deer. Harvest all ash. Leave oak, cedar and hemlock except for operability. 2 inch spec on balsam fir. Buffer river and oxbow 50 feet.

Other Comment: Harvest with stands 64, 69, 73 & 77. Access with be challenging - winter harvest, may need crane mats.

Next Steps: Any present species are acceptable regeneration.

Proposed Start Date: 10/01/2014

Limiting Factor 2D: Portable Bridge Needed (Dept. bridge will be adequate)

64 41077064-Cut	7.9	4119 - Mixed Northern Hardwoods	Medium Density Pole	107	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Cmpt. Review Proposal
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Prescription Thin stand to 50-60 sq ft/acre. This will promote hardwood regen and discourage balsam regen. Also will hopefully overwhelm deer. Harvest all ash. Leave oak, cedar and hemlock except for operability. 2 inch spec on balsam fir. Buffer river & oxbow 50 feet.

Other Comment: Harvest with stands 63, 69, 73 & 77. Access with be challenging - winter harvest, may need crane mats.

Next Steps: Any present species are acceptable regeneration.

Proposed Start Date: 10/01/2014

Limiting Factor 2D: Portable Bridge Needed (Dept. bridge will be adequate)

69 41077069-Cut	11.2	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	81	81-110	Harvest	Shelterwood	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Thin stand to 50-60 sq ft/acre. This will promote hardwood regen and discourage balsam regen. Also will hopefully overwhelm deer. Harvest all ash. Leave oak, cedar and hemlock except for operability. 2 inch spec on balsam fir. Buffer river 50 feet.

Other Comment: Harvest with stands 63,64, 73 & 77. Access with be challenging - winter harvest, may need crane mats.

Next Steps: Any present species are acceptable regeneration.

Proposed Start Date: 10/01/2014

Limiting Factor 2D: Portable Bridge Needed (Dept. bridge will be adequate)

73 41077073-Cut	8.8	4119 - Mixed Northern Hardwoods	Medium Density Pole	107	111-140	Harvest	Shelterwood	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
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Prescription Thin stand to 50-60 sq ft/acre. This will promote hardwood regen and discourage balsam regen. Also will hopefully overwhelm deer. Harvest all ash. Leave oak, cedar and hemlock except for operability. 2 inch spec on balsam fir. Buffer river 50 feet.

Other Comment: Harvest with stands 63, 64, 69 & 77. Minimize crossing swayles.

Next Steps: Any present species are acceptable regeneration.

Proposed Start Date: 10/01/2014

Limiting Factor 2D: Portable Bridge Needed (Dept. bridge will be adequate)

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
77 41077077-Cut	10.6	42380 - Non Pine Upland Conifer, Mixed Deciduous	Medium Density Pole	83		Harvest	Clearcut with Reserves	429 - Mixed Upland Conifers	Cmpt. Review Proposal

Prescription Harvest all trees except cedar and large white pine. Leave advanced regeneration. Buffer river 50 feet.

Specs:

Other Harvest with stands 73, 63, 64, & 69. Harvest in winter.

Comment:

Next Any present species are acceptable regeneration.

Steps:

Proposed

Start Date: 10/01/2014

Limiting Factor 2D: Portable Bridge Needed (Dept. bridge will be adequate)

**Total Treatment
Acreage Proposed: 44.0**

Report 5 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment 077
Year of Entry 2015

Availability for Management

Total			Dominant Site Conditions						
Acres	Acres Available	Acres Not Available	No	5B	4A	3J	3G	2D	
161	161		Aspen	161					
229	229		Cedar	229					
133	133		Lowland Conifers	111	12	9			
137	128	9	Lowland Deciduous	76		53	9		
25	25		Lowland Mixed Forest	25					
32	32		Lowland Spruce/Fir			32			
185	185		Mixed Upland Deciduous	174				11	
377	333	45	Northern Hardwood	324		31	13	9	
28	28		Upland Conifers	17				11	
19	19		Upland Mixed Forest	19					
1,324	1,271	53	Total Forested Acres	1,135	12	93	40	13	
	96%	4%	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
007	Not Available	3J: Water quality / BMPs (stream, river, or lake)	8				
Comments: Buffer for stand 73.							
008	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	9	No Limiting Factor			
Comments: Cannot access from north due to multiple neighbors and road improvements needed.							
009	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	11	No Limiting Factor			
Comments: Several landowners to cross on northern route and have to improve road.							

Report 5 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment 077
Year of Entry 2015

010	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	11	No Limiting Factor	
Comments: Several landowners on northern access route. And need to improver road.					
011	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	8		
Comments: Not enough volume to harvest by itself. Harvest with stands 63, 60, 73 & 77.					
012	Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	6		
Comments: Not enough volume to harvest by itself. Harvest with stands 64, 69, 73 & 77.					
013	Available	4A: No merchantable products (see product standards)	9		
Comments:					
014	Not Available	3J: Water quality / BMPs (stream, river, or lake)	6		
Comments: Buffer along river.					
015	Not Available	3J: Water quality / BMPs (stream, river, or lake)	6		
Comments: Buffer along river.					

Report 5 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment 077
Year of Entry 2015

016	Not Available	3J: Water quality / BMPs (stream, river, or lake)	9	4A: No merchantable products (see product standards)
Comments: Part of harvest estimated not to cut and buffer along river.				
017	Available	4A: No merchantable products (see product standards)	10	
Comments: Estimated part of stand not to be harvested.				
018	Available	4A: No merchantable products (see product standards)	6	
Comments: Not enough volume.				
019	Not Available	2G: Too wet (sensitive soils, does not include access issues)	13	No Limiting Factor
Comments:				
020	Not Available	3J: Water quality / BMPs (stream, river, or lake)	6	
Comments: Buffer along river for harvest.				
021	Not Available	3J: Water quality / BMPs (stream, river, or lake)	7	
Comments: Buffer along river for harvest.				

Report 5 – Site Conditions

Shingleton Mgt. Unit
Sheila Clark : Examiner

Compartment 077
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022	Available	4A: No merchantable products (see product standards)	24
Comments:			
023	Available	5B: Retention for regeneration purposes	12
Comments: Estimated timber sale line.			
024	Available	4A: No merchantable products (see product standards)	17
Comments:			
025	Available	4A: No merchantable products (see product standards)	7
Comments:			
026	Available	4A: No merchantable products (see product standards)	8
Comments:			



Report 6 – 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
Merwin Creek Boat Launch	Concentrated Recreation Area	Boat Access Site	SCA	
Comments Merwin Creek Boat Launch				
Merwin Campground	Concentrated Recreation Area	State Forest Campground	SCA	
Comments Merwin Campground				
Compt 77 center	Potential Old Growth		SCA Removal	
Comments Doesn't meet criteria.				
Compt 77 center east	Potential Old Growth		SCA Removal	
Comments Doesn't meet criteria.				
Compt 77 east	Potential Old Growth		SCA Removal	
Comments Doesn't meet old growth criteria.				
Compt. 77 West	Potential Old Growth		SCA Removal	
Comments Doesn't meet criteria.				



Report 7 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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.



Stand	Shingleton Mgt. Unit		Report 8 – Forested Stands			Compartment: 077 Year of Entry: 2015	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
2	4119 - Mixed Northern Hardwoods	Medium Density Log	81.4	82	81-110		
3	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	5.7	87		This is an island surrounded by an old oxbow.	
5	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	96.1	82	81-110		
6	4199 - Other Mixed Upland Deciduous	Medium Density	3.3	13		This stand was harvested 2 entries before. Scattered red maple, cedar, hemlock and balsam fir were left.	
8	4119 - Mixed Northern Hardwoods	Medium Density Pole	0.7	82			
9	6132 - Mixed Lowland Forest with Cedar	Medium Density Pole	7.9	107			
11	6120 - Lowland Cedar	Low Density Pole	2.0	140		Poor quality trees on low ground . A lot of windthrow.	
13	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	6.0	87			
14	6118 - Lowland Deciduous with Cedar	Medium Density Pole	13.0	85			
15	4136 - Aspen, Mixed Conifer	Medium Density	13.5	13		Stand was cut 13 years ago. Regeneration looks good. Not all ground is upland - a mix.	
16	6120 - Lowland Cedar	Low Density Pole	3.7	108			
17	6132 - Mixed Lowland Forest with Cedar	Low Density Pole	16.7	49	51-80		
18	4119 - Mixed Northern Hardwoods	Medium Density Log	32.9	82	111-140		
19	6120 - Lowland Cedar	Medium Density Pole	12.6	49	51-80		
21	6115 - Lowland Ash	Medium Density Pole	9.6	82	111-140		
23	4119 - Mixed Northern Hardwoods	Medium Density Log	28.1	82	111-140		
24	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	24.0	85	51-80		
25	6120 - Lowland Cedar	Medium Density Pole	39.5	107			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	6124 - Lowland Spruce-Fir	Medium Density	18.0	49		
27	4130 - Aspen	Medium Density	30.4	14		
29	4119 - Mixed Northern Hardwoods	Medium Density Log	4.0	82		
30	6122 - Black Spruce	High Density Pole	7.8	78		
31	6120 - Lowland Cedar	Medium Density Pole	6.0	105		
33	6118 - Lowland Deciduous with Cedar	Medium Density Pole	63.1	85	81-110	
34	6122 - Black Spruce	Medium Density Pole	7.1	107	81-110	
35	4119 - Mixed Northern Hardwoods	Medium Density Log	94.4	102	111-140	
36	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	86.3	85	111-140	
38	6122 - Black Spruce	Low Density Pole	17.0	107	1-50	Sparcely stocked black spruce stand with spruce, tamarack, and tag alder in understory. Includes a vernal pond on west edge.
41	6120 - Lowland Cedar	Medium Density Pole	160.9	138		Mixed cedar stand with lots of deer activity.
43	6115 - Lowland Ash	Medium Density Pole	21.6	82		
44	4134 - Aspen, Spruce/Fir	Medium Density	4.4	7		Some hemlock, balsam fir, and black spruce left from harvest. Stand is regenerating well.
46	4112 - Maple, Beech, Cherry Association	Medium Density Log	15.0	90	81-110	This stand is on a hill. There is lot s of regneration in the stand and in the regeneration pockets. There is some hemlock scattered throughout the stand.
47	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	14.8	95	81-110	This stand is a transitional stand with a wide variety of trees. It is mixed upland and lowland.
48	4319 - Mixed Upland Forest	Medium Density Pole	9.7	85		
50	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	9.1	13		This stand was finished cutting in 2000. It was previously a B6 and was clearcut.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
51	4119 - Mixed Northern Hardwoods	Medium Density Log	54.9	87		
52	42390 - Mixed Non-Pine Upland Conifers	Low Density Pole	17.5	111	51-80	
53	4119 - Mixed Northern Hardwoods	Medium Density Pole	5.2	81	81-110	
54	4112 - Maple, Beech, Cherry Association	Medium Density Log	5.3	81	81-110	This is a nice hardwood patch in good health.
56	4134 - Aspen, Spruce/Fir	Medium Density Pole	28.8	35		
57	6120 - Lowland Cedar	High Density Pole	3.9	95		Typical cedar stand.
58	6124 - Lowland Spruce-Fir	Medium Density Pole	2.3	95		Lowland conifer stand with black spruce and balsam fir very small diameter. Intermittent stream flows through stand.
59	4199 - Other Mixed Upland Deciduous	Medium Density Pole	27.7	81	81-110	
60	4119 - Mixed Northern Hardwoods	Medium Density Log	23.2	81	81-110	
61	4134 - Aspen, Spruce/Fir	Medium Density Pole	53.2	23		Stand was harvested and has regenerated very well with a wide variety of trees. There area a couple of vernal ponds in this stand as well as an intermittent drain.
63	4119 - Mixed Northern Hardwoods	Medium Density Pole	6.2	107	81-110	
64	4119 - Mixed Northern Hardwoods	Medium Density Pole	10.0	107	81-110	
67	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	12.4	95		There is a drain that runs through the southeastern side of the stand. this is a transition stand with a wide variety of types and drainages. if need to cross will most likely be in winter.
68	4134 - Aspen, Spruce/Fir	Medium Density	7.5	7		This stand was harvested 7 years ago and left scattered balsam, cedar, and red maple. However, this is an aspen regeneration stand.
69	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	15.8	81	81-110	This stand has swayles and spring runoff drains.
70	4319 - Mixed Upland Forest	Low Density Pole	8.9	84		The Merwin camp ground is included in this stand.
72	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Pole	3.1	92		

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Shingleton Mgt. Unit

Report 8 – Forested Stands

Compartment: 077
Year of Entry: 2015

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
73	4119 - Mixed Northern Hardwoods	Medium Density Pole	16.3	107	111-140	As stand transitions to the south more hemlock, cedar and balsam fir. Being along the river there are some swayles and wet pockets.
74	4134 - Aspen, Spruce/Fir	Medium Density	22.7	23		Stand was harvested.
75	6124 - Lowland Spruce- Fir	Low Density Pole	8.9	83		Stand is submerchantable saplings and poles. Some scattered merchantable trees.
76	6129 - Mixed Coniferous Lowland Forest	Low Density Pole	14.1	75	81-110	
77	42380 - Non Pine Upland Conifer, Mixed Deciduous	Medium Density Pole	10.6	83		Variable stand. Mostly balsam and spruce.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	50 - Water	4.1	No	Unspecified	
4	50 - Water	33.5	No	Unspecified	
7	50 - Water	4.2	No	Unspecified	
10	3303 - Mixed Low Density Trees	11.8	No	Unspecified	This is a tag alder swamp with scattered cedar, red maple and black ash.
12	50 - Water	14.7	No	Unspecified	
20	50 - Water	2.0	No	Unspecified	
22	50 - Water	16.1	No	Unspecified	
28	50 - Water	6.8	No	Unspecified	
32	50 - Water	9.5	No	Unspecified	
37	6220 - Alder/willow	3.2	No	Unspecified	
39	50 - Water	32.1	No	Unspecified	
40	50 - Water	0.4	No	Unspecified	
42	6224 - Treed Bog	8.8	No	Unspecified	
45	6220 - Alder/willow	18.1	No	Unspecified	
49	50 - Water	18.6	No	Unspecified	
55	50 - Water	3.1	No	Unspecified	
62	50 - Water	1.3	No	Unspecified	
65	50 - Water	23.7	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
66	6220 - Alder/willow	1.3	No	Unspecified	
71	6220 - Alder/willow	3.0	No	Unspecified	