



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33023

Entry Year 2022

Acreage: 257

County Menominee

Management Area: Menominee End Moraine

Revision Date: 2020-08-18

Stand Examiner: Dustin Salter

Legal Description:

T35N R29W Sec. 1 and 12

Identified Planning Goals:

Oak wilt has been treated within this compartment over the last twenty years. There are a number of active oak wilt epicenters within the compartment that need to be treated again. The oak within the compartment is old and very susceptible to wind damage. This damage allows the continued spread of oak wilt. This entry period we will be harvesting two oak stands that had been previously shelterwood cut, to begin to regenerate these stands. These treatments worked, each of these stands have established regeneration, so now the overstory needs to be removed to release the regeneration before it becomes stunted. An additional lower quality oak stand will be shelterwood cut, to begin to regenerate the stand while the oak, maple and aspen have enough vigor to sprout. A lowland balm and conifer stand will also be harvested. Within this stand the spruce/fir are being defoliated by the spruce budworm and the eastern larch beetle are killing the tamarack. This stand needs to be harvested while the conifer seed is viable and the balm and hardwood are vigorous enough to sprout.

Soil and topography:

The topography is mostly level to gently rolling. The soils are primarily well drained sands. The major soil series are Pemene and Rubicon.

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

This compartment is located approximately in the middle of a block of state forest land that is about 20 miles long and 8 miles wide in the southwestern part of Menominee County. In and around the compartment the land holdings are broken up, with many private parcels within this block of state land. Recreation is the primary use of the state land and the surrounding private land. There are some family farms located adjacent to this compartment as well.

Unique Natural Features:

Sixty Islands access site is within this compartment. The Shakey Lakes Oak And Pine Barrens ERA is adjacent to the western edge of the compartment.

Archeological, Historical, and Cultural Features:

There are known sites, within this compartment along the riparian corridor along the Menominee River.

Special Management Designations or Considerations:

The Shakey Lakes Oak And Pine Barrens ERA is adjacent to the western edge of the compartment.

Watershed and Fisheries Considerations:

Menominee River is located within this compartment. A 100' buffer is recommended; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

The main wildlife habitat focus in this compartment is management of oak. Oak is relatively uncommon on the Escanaba State Forest Unit, and it provides valuable food for wildlife. Much of the oak is reaching maturity and oak wilt disease is causing mortality as well. There is a need to preserve mature oak trees for mast and den sites while also regenerating the type. During this decade 3 oak stands will be treated. Treatments will promote regenerating oak while retaining mast for wildlife.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of medium textured glacial till and glacial outwash sand and gravel and postglacial alluvium. There is approximately 60 feet of relief in the compartment. The glacial drift thickness varies between 10 and 50 feet. The Cambrian Munising Formation underlies the glacial drift. The Munising does not have an economic use presently. Two old gravel borrow pits exist in section 01, but are not foreseen to be reopened this entry. Private lands adjacent to this compartment are currently being explored for metallic mining. No economic oil and gas

production has been found in the UP.

Vehicle Access:

The main access into this compartment is via the River Road, which is a road maintained by the Menominee County Road Commission. There are two track roads that branch off the River Road, that provide access into the rest of the compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

The Sixty Island access site is within this compartment. It provides access to the Menominee River. The main recreational activities include hunting, ORV riding, trapping and activities on the River.

Fire Protection:

Access into the compartment is very good. The Menominee River provides a good water source for the area. The majority of the covertsypes within the compartment are hardwood and oak, so there is a low potential for large fires.

Additional Compartment Information:

The following reports from the Inventory are attached:

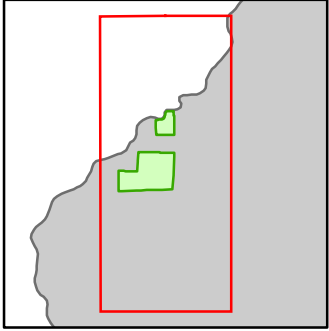
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

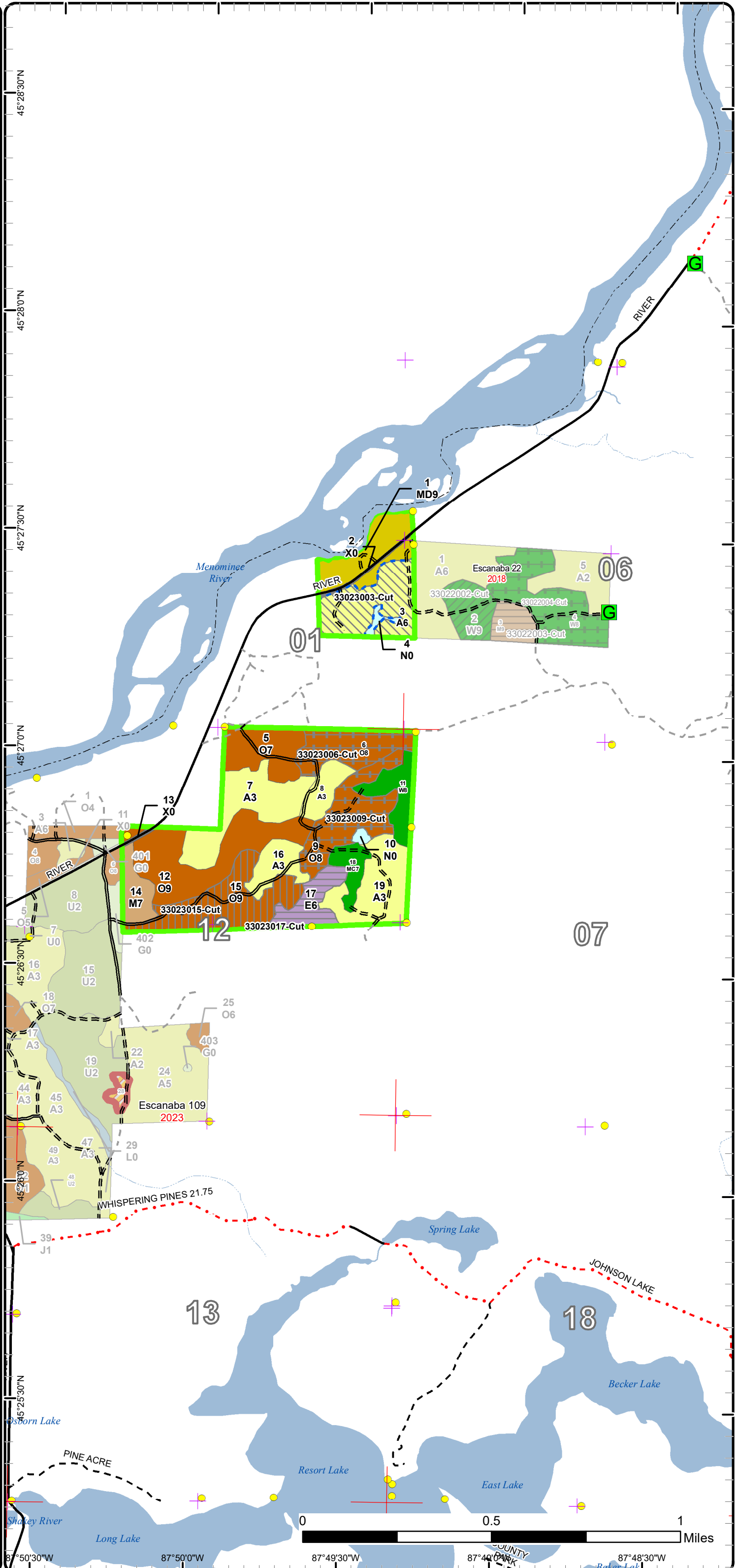
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 23
 T35N-R29W Sec. 01,12
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee End Moraine
 YOE: 2022
 Acres: 257 GIS Calculated
 Examiner: Dustin Salter
 Map Revised: 9/8/2020
 Map Phase: Web-Post



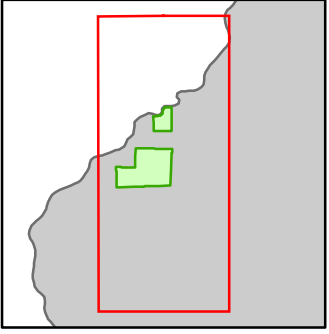
- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G** Gate
- G** Compartment Boundary
- ▨ Treatments with Site Conditions
- ▨ Other Harvest - See Comments
- ▨ Clearcut (w/Reserves)
- ▨ Harvest, Overstory Removal
- ▨ Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 122 - Roads/Parking Lot
- 623 - Emergent Wetland



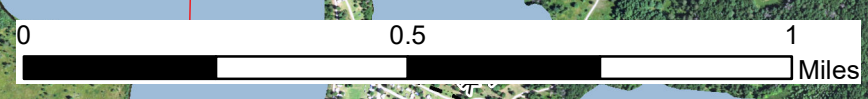
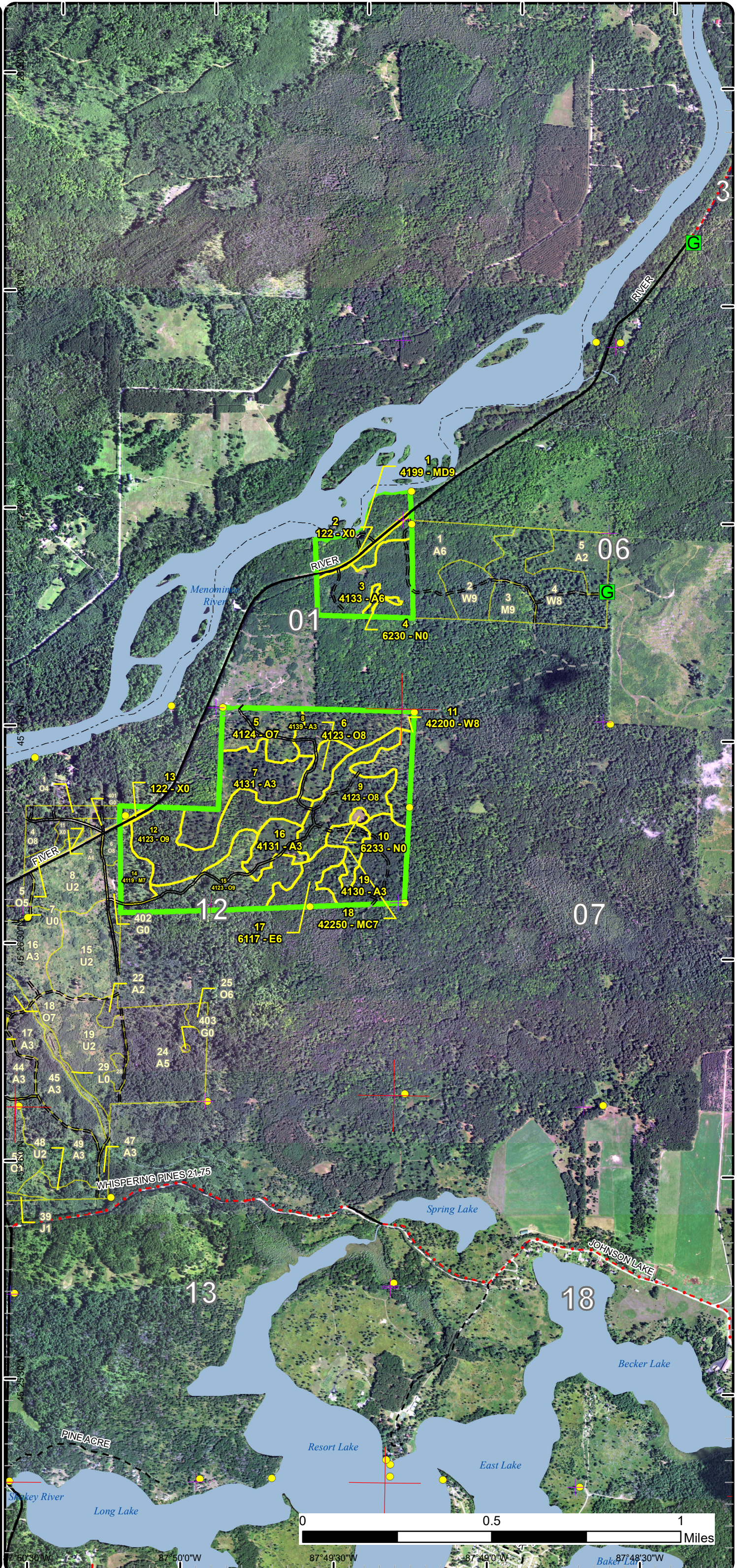
87°50'30"W 87°50'0"W 87°49'30"W 87°48'30"W

Stand Boundary Map

Compartment: 23
 T35N-R29W Sec. 01,12
 County: Menominee
 Unit: Escanaba
 Mgmt Area: Menominee End Moraine
 Moraine
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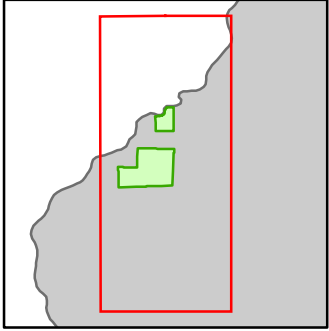
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
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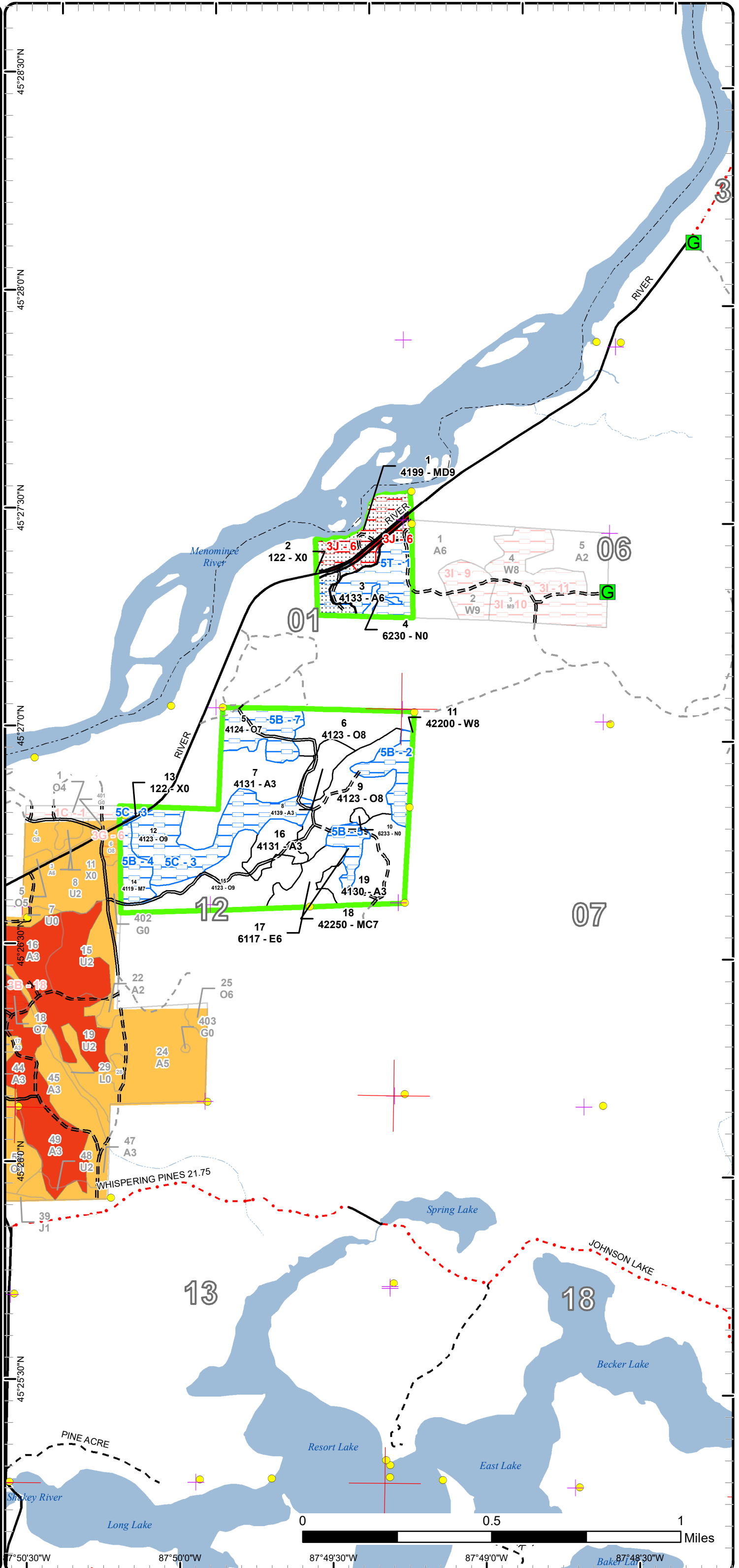
87°50'30"W 87°49'30"W 87°48'30"W

Special Conservation Areas

Compartment: 23
 T35N-R29W Sec. 01,12
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- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G Gate
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5T: Contingency Treatment for Forest Health Concerns
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Non-Dedicated Natural Areas and National Natural Landmarks



Report 1 – Total Acres by Cover Type and Age Class



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+	Unnever-Aged	Total
Aspen	0	40	0	21	23	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Lowland Deciduous	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	10
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	17
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8
Oak	0	0	0	0	0	0	0	0	0	0	0	115	0	0	0	0	0	0	115
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
White Pine	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
Total	6	40	0	21	23	11	0	0	0	0	0	151	0	6	0	0	0	0	255



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 23

Total Compartment Acres: 257

Commercial Harvest - 77
 Harvests with Site Condition - 23
 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	0	0	0	0	0	0	0	23		23
Lowland Deciduous	11	0	0	0	0	0	0	0		11
Oak	0	0	0	0	28	0	39	0		67
Total	11	0	0	0	28	0	39	0	23	100

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	100	0	0	0	0	0	0	0		100
Next Step	0	0	0	0	0	0	38	0		38
Total	100	0	0	0	0	0	38	0	0	138



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

3	33023003-Cut	23.2	4133 - Aspen, Mixed Pine	Poletimber Well	38	81-110	Harvest	Other - Specify	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Treat the oak wilt as necessary. There is an active oak wilt epi-center in the southwest part of the stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, pine and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Contingency Treatment</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
6	33023006-Cut	16.7	4123 - Red Oak	Sawtimber Medium	104	1-50	Harvest	Overstory Removal	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except mark to retain a mix of seed trees. The seed trees will provide additional seed and partial shade and mast for wildlife.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, aspen, maple and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand was shelterwood cut in 2013 on contract 025-12-01. This is a two aged stand, with mature oak and pine over an understory of aspen, maple, oak and pine regeneration. This stand was shelterwood cut to begin to regenerate the stand, by providing partial shade and a seed source. The overstory now needs to be removed to release the regeneration before it becomes stunted and before it grows too much and is damaged during the removal of the overstory.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
9	33023009-Cut	22.4	4123 - Red Oak	Sawtimber Medium	104	51-80	Harvest	Overstory Removal	4121 - Oak, Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than five (5) inches at DBH; except mark to retain a mix of seed trees. The seed trees will provide seed, partial shade and mast for wildlife.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, aspen, maple and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> This stand was shelterwood cut in 1994 on contract 017-92-01. All of the oak was retained and the pine was marked to cut. The harvest in 1994 was done to begin to regenerate the stand. This stand is now two aged, with mature pine and oak in the overstory and younger aspen, maple and oak in the understory. The regeneration needs to be released before it becomes stunted and the growth is significantly impacted.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
15 33023015-Cut	27.5	4123 - Red Oak	Sawtimber Well	104	81-110	Harvest	Shelterwood	4122 - Oak, Pine	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3); except mark to retain 10 to 20 basal area of mixed species. But the majority of them will be white oak and pine, but some red oak will be retained away from the oak wilt epi-centers.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, pine, maple and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand was thinned in 2013 on contract 025-12-01. There were three oak wilt epi-centers cut out of this stand during the contract. Two were treated in 2012-13 and were 14.1 and 6.7 acres in size. And another one in 2014-15 that was about an acre. All three of these sites were vibratory plowed and all red/pin oak were harvested. There are now at least 4 new oak wilt epi-centers that need to be treated. They are on the southern edge of the stand. This stand has moderate quality oak and is mature, we should harvest this stand while the oak has enough vigor to sprout to regenerate the stand. And to open the stand up to allow partial sun, to regenerate more pine.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
17 33023017-Cut	10.5	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees greater than three (3) inches at DBH; except retain all cedar and hemlock. Also, mark to retain some oak and pine seed trees. These trees will provide seed and mast for wildlife.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Balm, aspen, spruce/fir, maple, oak and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mixed lowland and upland stand. The edges of the stand are upland and the central and southern parts of the stand are lowland. All of the species within the stand are mature and are ready to be harvested. There is some hemlock and tamarack, but not 2% worth. The majority of the cedar is in the southeast corner of the stand. The cedar is in a dense area, so it will be retained to provide winter shelter for deer. The spruce/fir are being heavily defoliated by the spruce budworm, so it should be harvested as soon as possible to salvage as much as possible.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 100.3
Acreage Proposed:

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 23
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5B	5C	5T	3J
85	62	23	0	Aspen			23	
11	11	0	0	Lowland Deciduous				
2	2	0	0	Marsh				
17	0	0	17	Mixed Upland Deciduous				17
6	0	6	0	Natural Mixed Pines	6			
8	0	8	0	Northern Hardwood	8			
114	67	48	0	Oak	16	32		
3	3	0	0	Urban				
11	0	11	0	White Pine	11			
257	144	96	17	Total Forested Acres	41	32	23	17
	56%	37%	7%	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	5T: Contingency Treatment for Forest Health Concerns	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: There is an active oak wilt epi-center in the southwest part of the stand. Only the oak wilt will be treated in this stand this entry.							
2	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This is a two aged stand, with mature pine and oak over a moderately stocked understory of aspen, maple, white pine and oak. The overstory should be retained to provide partial shade until the pine and oak regeneration becomes established.							

Report 4 – Site Conditions

Escanaba Mgt. Unit
Dustin Salter : Examiner

Compartment: 23
Year of Entry: 2022

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was thinned in 2013 on contract 025-12-01. This stand was previously thinned in 1998. Good quality red oak stand, that is not in need of a thinning. This stand should be ready for a thinning next entry period.							
4	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was cut in 2013 on contract 025-12-01. The pin/red oak, aspen, balm, and spruce/fir were cut. The pine and hardwood was marked to cut. But, the pin/red oak ended up being cut, because there was a large oak wilt epi-center that was treated in 2013 as well. This stand is two aged, with mature white oak and red maple in the overstory and a moderately stocked understory of pin oak, maple, cherry and aspen regeneration. Retain the overstory to provide partial shade, until the regeneration becomes established.							
5	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was shelterwood cut in 2013 on contract 025-12-01. The stand was previously thinned in 1995. Two aged stand with, mature pine and oak over an understory of maple, aspen, cherry and ironwood. Some pine is regenerating, over time more will continue to seed in. Maintain the canopy, to provide seed and partial shade until the regeneration becomes established.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments: Stand is along the Menominee River.							
7	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand was shelterwood cut in 2013 on contract 025-12-01. A 6.7 acre oak wilt epi-center was treated in 2012-13, this epi-center is in the western half of the stand. This area had a vibratory plow line put in and all red/pin oak was removed. Two aged stand, with mature oak and pine in the overstory and a mix of aspen, oak and maple regeneration. After the regeneration becomes established the overstory should be harvested to release the regeneration.							

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
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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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4199 - Other Mixed Upland Deciduous	Sawtimber Well	17.2	100	141-170	N/A	SCA-Menominee River riparian corridor. Sixty Island river access site is in this stand. High quality hardwood stand, that is in need of a thinning to improve the health of the stand. This would include cutting the short lived trees, the poor quality trees and to improve the spacing.																																																					
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2	122 - Road/Parking Lot	Nonstocked	1.8		Unspecified	No	River Road, which is a county road and its R.O.W.
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3	4133 - Aspen, Mixed Pine	Poletimber Well	23.2	38	81-110	N/A	Stand was cut in 1982 on contract 50-81A. The pine and oak was retained. This stand is too aged, good quality aspen and pockets of mature pine and oak. The spruce budworm is heavily defoliating the balsam fir. There is an active oak wilt epi-center in the southwest part of the stand. Treat it as funding is available.																																												
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4	6230 - Cattail	Nonstocked	1.5		Unspecified	No	Lowland swale, with some balm and ash growing in it.										
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Balsam Poplar	Low	>20 feet	Sapling														

5	4124 - Red with White Oak	Sawtimber Poor	15.7	104	Unspecified	N/A	Stand was shelterwood cut in 2013 on contract 025-12-01. A 6.7 acre oak wilt epi-center was treated in 2012-13, this epi-center is in the western half of the stand. This area had a vibratory plow line put in and all red/pin oak was removed. Two aged stand, with mature oak and pine in the overstory and a mix of aspen, oak and maple regeneration. After the regeneration becomes established the overstory should be harvested to release the regeneration.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
6	4123 - Red Oak	Sawtimber Medium	16.7	104	1-50	N/A	Stand was shelterwood cut in 2013 on contract 025-12-01. This is a two aged stand, with mature oak and pine over an understory of aspen, maple, oak and pine regeneration. This stand was shelterwood cut to begin to regenerate the stand, by providing partial shade and a seed source. The overstory now needs to be removed to release the regeneration before it becomes stunted and before it grows too much and is damaged during the removal of the overstory.
Canopy Species		% Cover	Size Class	DBH		Age	
Beech		3	Pole/Log/Sap	8			
Red Maple		5	Pole/Log/Sap	9		104	
Red Oak		70	Log/Pole/Sap	15		104	
White Oak		7	Log/Pole/Sap	15		104	
White Pine		15	Log/Pole/Sap	10		104	
Sub-Canopy Species		Density	Avg. Height		Size		
Black Cherry		Low	5 - 10 feet		Sapling		
Bigtooth Aspen		High	10 - 20 feet		Sapling		
7	4131 - Aspen, Oak	Sapling Well	23.6	7	1-50	N/A	Stand was clearcut in 2013 on contract 025-12-01; except for the pine, oak, and beech. The pine, oak, and beech were marked to cut. This stand has regenerated well with aspen and red maple. There is also some oak and pine regeneration. This stand is open enough, that the overstory doesn't need to be removed. The oak will be retained to provide mast for wildlife.
Canopy Species		% Cover	Size Class	DBH		Age	
Red Oak		20	Log/Pole/XLog	14		104	
White Pine		5	XLog/Log	18		104	
Red Maple		20	Sapling	1		7	
Quaking Aspen		50	Sapling	2		7	
White Oak		5	Log/Pole	14		104	
Sub-Canopy Species		Density	Avg. Height		Size		
White Pine		Low	5 - 10 feet		Sapling		
Red Oak		Low	5 - 10 feet		Sapling		
8	4139 - Aspen, Mixed Deciduous	Sapling Well	7.5	7	1-50	N/A	Stand was clearcut in 2013 on contract 025-12-01; except for the pine, oak, and beech. The pine, oak, and beech were marked to cut. This stand has fully regenerated with mostly aspen and red maple, but there is also some oak regenerating as well.
Canopy Species		% Cover	Size Class	DBH		Age	
Beech		3	Sapling	1		7	
Red Oak		10	Log/Pole	15		104	
Bigtooth Aspen		50	Sapling/Pole	1		7	
White Pine		10	Log/XLog	17		104	
Red Maple		20	Sapling	1		7	
Black Cherry		3	Sapling	1		7	
Ironwood		2	Sapling	1		7	
White Oak		2	Log/Pole	15		104	
Sub-Canopy Species		Density	Avg. Height		Size		
Hazelnut (Beaked)		Low	5 - 10 feet		Tall Shrub		
Red Oak		Low	5 - 10 feet		Sapling		
White Pine		Low	5 - 10 feet		Sapling		
9	4123 - Red Oak	Sawtimber Medium	22.4	104	51-80	N/A	This stand was shelterwood cut in 1994 on contract 017-92-01. All of the oak was retained and the pine was marked to cut. The harvest in 1994 was done to begin to regenerate the stand. This stand is now two aged, with mature pine and oak in the overstory and younger aspen, maple and oak in the understory. The regeneration needs to be released before it becomes stunted and the growth is significantly impacted.
Canopy Species		% Cover	Size Class	DBH		Age	
Red Oak		65	Log/Pole/Sap	14		104	
White Oak		10	Log/Pole/Sap	14		104	
White Pine		20	Log/Pole/Sap	16		104	
Red Pine		5	Log/Pole/Sap	15		104	
Sub-Canopy Species		Density	Avg. Height		Size		
Bigtooth Aspen		Medium	>20 feet		Sapling		
White Pine		Medium	10 - 20 feet		Sapling		
Ironwood		Medium	10 - 20 feet		Sapling		
Black Cherry		Low	5 - 10 feet		Sapling		
Hazelnut (Beaked)		Low	5 - 10 feet		Tall Shrub		
10	6233 - Wet Meadow	Nonstocked	1.0		Unspecified	No	Wet meadow, with willow around the perimeter. This stand is holding lots of water with the high rainfall the last two years.
Sub-Canopy Species		Density	Avg. Height		Size		
Willow spp.		Medium			Tall Shrub		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
11	42200 - Natural White Pine	Sawtimber Medium	10.6	104	1-50	N/A	Stand was shelterwood cut in 2013 on contract 025-12-01. The stand was previously thinned in 1995. This is a two aged stand, with mature pine and oak over a moderately stocked understory of aspen, maple, white pine and oak. The overstory should be retained to provide partial shade until the pine and oak regeneration becomes established.																																																				
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12	4123 - Red Oak	Sawtimber Well	32.0	104	81-110	N/A	Stand was thinned in 2013 on contract 025-12-01. This stand was previously thinned in 1998. Good quality red oak stand, that is not in need of a thinning. This stand should be ready for a thinning next entry period.																																																				
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14	4119 - Mixed Northern Hardwoods	Sawtimber Poor	8.0	104	1-50	N/A	Stand was cut in 2013 on contract 025-12-01. The pin/red oak, aspen, balm, and spruce/fir were cut. The pine and hardwood was marked to cut. But, the pin/red oak ended up being cut, because there was a large oak wilt epi-center that was treated in 2013 as well. This stand is two aged, with mature white oak and red maple in the overstory and a moderately stocked understory of pin oak, maple, cherry and aspen regeneration. Retain the overstory to provide partial shade, until the regeneration becomes established.																																																				
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15	4123 - Red Oak	Sawtimber Well	27.5	104	81-110	N/A	Stand was thinned in 2013 on contract 025-12-01. There were three oak wilt epi-centers cut out of this stand during the contract. Two were treated in 2012-13 and were 14.1 and 6.7 acres in size. And another one in 2014-15 that was about an acre. All three of these sites were vibratory plowed and all red/pin oak were harvested. There are now at least 4 new oak wilt epi-centers that need to be treated. They are on the southern edge of the stand. This stand has moderate quality oak and is mature, we should harvest this stand while the oak has enough vigor to sprout to regenerate the stand. And to open the stand up to allow partial sun, to regenerate more pine.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16	4131 - Aspen, Oak	Sapling Well	9.1	7	1-50	N/A	Stand was clearcut in 2013 on contract 025-12-01; except for the pine, oak, and beech. The pine, oak, and beech were marked to cut. The stand has fully regenerated with aspen, maple and oak. There are scattered clumps of mature oak and pine within the stand.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	15	Sapling	1	7	Hazelnut (Beaked)	Low		5 - 10 feet	Tall Shrub
White Oak	5	Log/Pole/Sap	14	104	Ironwood	Low		5 - 10 feet	Sapling
Bigtooth Aspen	60	Sapling	1	7					
Red Oak	15	Log/Pole/Sap	14	104					
White Pine	2	Log/XLog	16	104					
Black Cherry	3	Sapling	1	7					

17	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	10.5	48	81-110	N/A	Mixed lowland and upland stand. The edges of the stand are upland and the central and southern parts of the stand are lowland. All of the species within the stand are mature and are ready to be harvested. There is some hemlock and tamarack, but not 2% worth. The majority of the cedar is in the southeast corner of the stand. The cedar is in a dense area, so it will be retained to provide winter shelter for deer. The spruce/fir are being heavily defoliated by the spruce budworm, so it should be harvested as soon as possible to salvage as much as possible.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Pole/Log/Sap	9	95	Black Cherry	Low		10 - 20 feet	Sapling
Balsam Poplar	30	Pole	7	48					
Balsam Fir	10	Pole/Sap/Log	8	48					
White Spruce	15	Pole/Sap/Log	8	48					
Northern White Cedar	5	Log/Pole	10	95					
Black Ash	2	Pole/Sapling	6	95					
White Oak	10	Log/Pole/Sap	10	95					
Quaking Aspen	5	Pole	7	48					
Ironwood	3	Pole/Sapling	5	48					
White Pine	3	XLog/Log	18	95					
Paper Birch	2	Log/Pole	10	95					

18	42250 - Pine, Oak	Sawtimber Poor	6.3	125	1-50	N/A	Stand was shelterwood cut in 2013 on contract 025-12-01. The stand was previously thinned in 1995. Two aged stand with, mature pine and oak over an understory of maple, aspen, cherry and ironwood. Some pine is regenerating, over time more will continue to seed in. Maintain the canopy, to provide seed and partial shade until the regeneration becomes established.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	20	Log	15	125	Black Cherry	Medium		10 - 20 feet	Sapling
White Oak	10	Log	15	125	Red Maple	Medium		10 - 20 feet	Sapling
White Pine	65	Log/XLog	17	125	Ironwood	Medium		10 - 20 feet	Sapling
Red Pine	5	Log	15	125	Bigtooth Aspen	Low		10 - 20 feet	Sapling

19	4130 - Aspen	Sapling Well	21.4	25	1-50	N/A	Stand was clearcut in 1995 on contract 017-92-01. The oak, pine, cedar and hemlock were retained. Fully stocked aspen stand with some mature pine and oak mixed in.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	10	Log/XLog	15	104	Ironwood	Low		>20 feet	Sapling
White Oak	5	Log/Pole	14	104					
Bigtooth Aspen	68	Pole/Sapling	5	25					
White Pine	10	Log/XLog	16	104					
Red Maple	5	Sapling/Pole	4	25					
White Spruce	2	Pole/Sapling	5						