



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11053

Entry Year: 2027

Acreage: 936

County: Houghton

Management Area: Houghton Hardwoods

Stand Examiner: Jason Mittlestat

Legal Description:

T52N R36W, Sections 34, and 35.

Identified Planning Goals:

Manage for high quality northern hardwoods. Expand mesic conifers within stands that are scheduled for treatment.

Soil and topography:

Soils are Munising loamy fine sand, Kalkaska sand, Halfaday sand, and Munising-Skanee complex. Topography is level to slightly rolling. The compartment is level to rolling topography. The only steep terrain is along Bruno Creek and the depression in the north part of the compartment.

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

This is part of a block of state forest land (to the east). The lands to the south, west and north are a mix of small private and forest industry. The land to the east of the campground is part of a plat. Land use is predominantly forest industry, although there are seasonal cottages and one permanent home in the surrounding area.

Unique Natural Features:

There is a deep depression in the northwest corner of section 35. Loon, Bald Eagle and Farwell's water-milfoil have been documented in the compartment.

Potential for osprey, wood turtle, great blue heron rookery, Frigga fritillary, Freija fritillary, red-shouldered hawk, goshawk, moose, and gray wolf.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains Lake Emily, three small unnamed lakes, Bruno Creek, and several unnamed designated trout streams. Maintain a buffer to the high bank of the valley wall along the unnamed designated trout stream that runs through stand 018. Maintain a buffer to the high bank of the valley wall along the unnamed designated trout stream that runs through stand 021. Maintain a buffer to the high bank of the valley wall along the unnamed designated trout stream that connects to Lake Emily and runs through stand 19 and 21.

Wildlife Habitat Considerations:

Loons are found on Emily Lake. Hard and soft mast in this compartment supports a good bear population. Mesic conifer regeneration is not impacted by deer browsing. Feature oak where present.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 100 and 400 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was previously used as a building stone. The nearest gravel pit is located one mile to the northwest and potential appears to be good. Abandoned copper mines and crushed basalt piles are located one mile to the northwest. This area was not previously leased for metallic development. There is no economic oil and gas production in the UP.

Vehicle Access:

Access in good in the west half of the compartment (via county roads). Access east is achieved from the Alston Trail Road (snowmobile trail 109) or from the winter road that borders the south of the compartment.

Survey Needs:

Recreational Facilities and Opportunities:

There is a state forest campground on Emily Lake. Snowmobile trail 109 is just north of the compartment boundary.

Fire Protection:

This is not a fire prone area.

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: 11053
T52N R36W, Sections 34-36.
County: Houghton
Unit: Baraga
Mgmt. Area: Houghton Hardwoods
YOE: 2027
Acres: 936 GIS Calculated
Examiner: Jason Mittlestat
Date Exported: 04/28/2025
Map Phase: Web Post



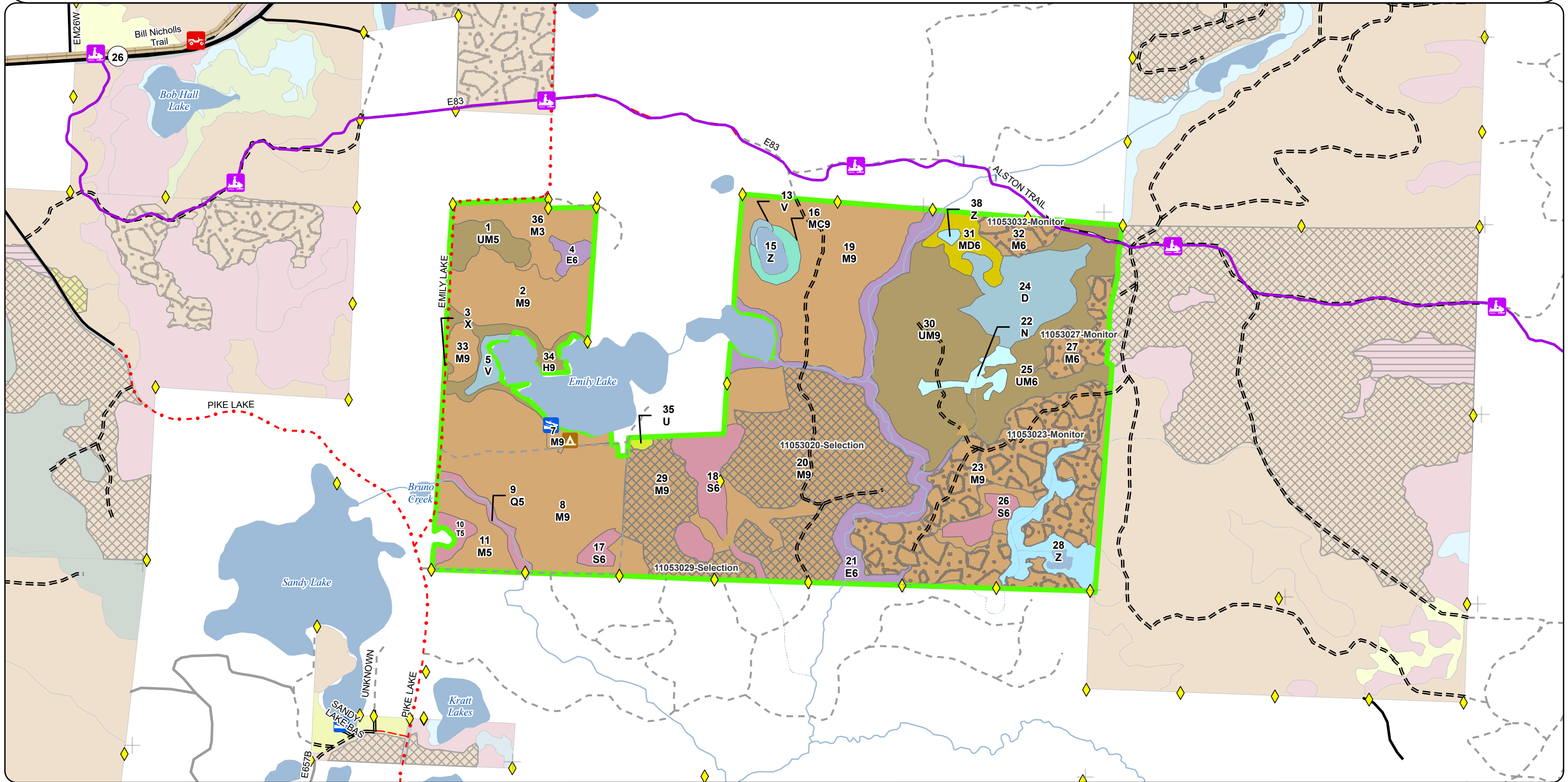
0 0.5 1 Miles

- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Boating Access Site
- Culvert
- Campground
- Designated ORV Routes
- Designated Snowmobile Trails









- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road

- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Selection
- Monitoring - Regeneration
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous






- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Road/Parking Lot
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



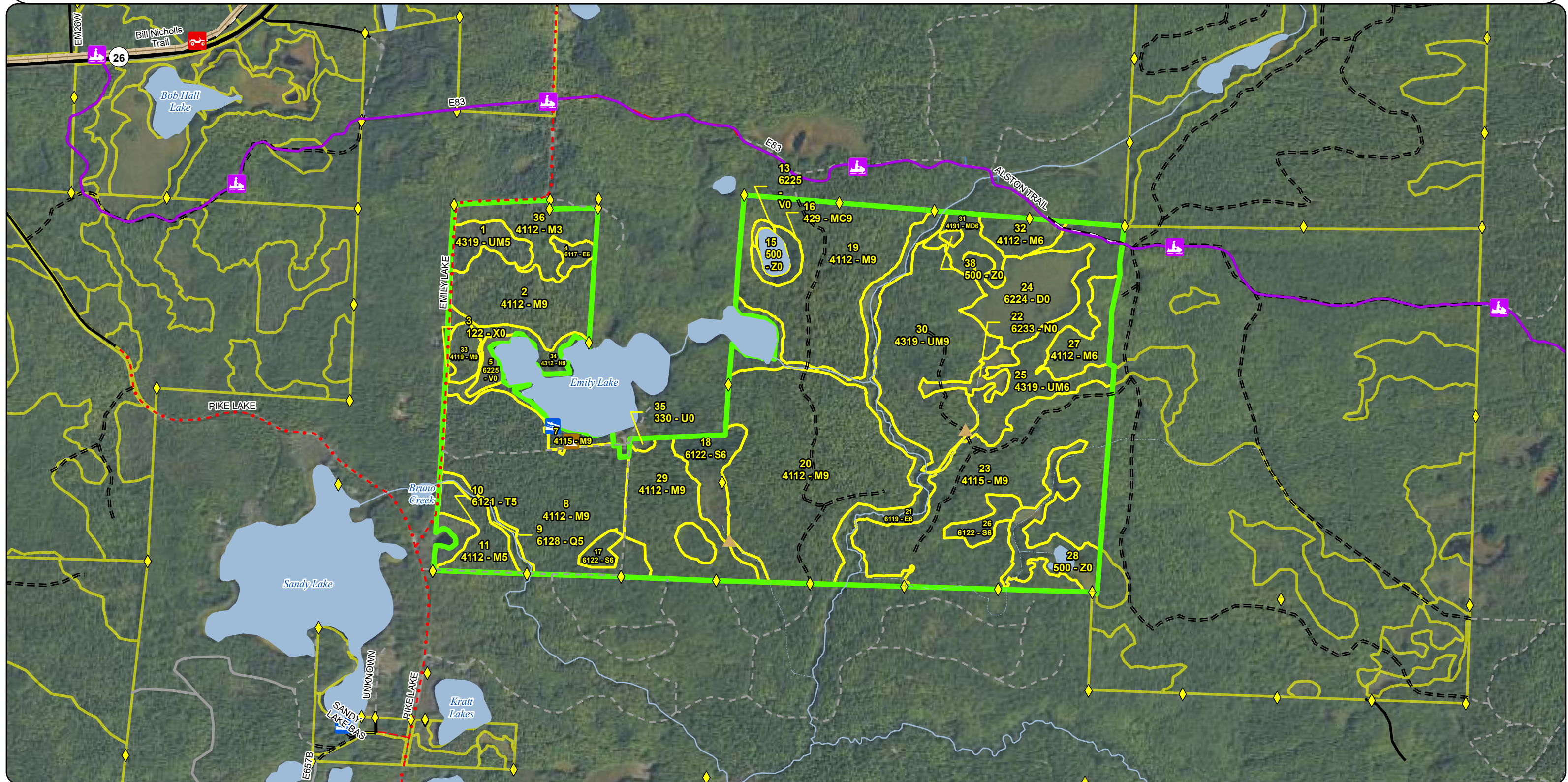


-  Remonumented Section Corners
-  Survey Grade Corners
-  Berms
-  Boating Access Site
-  Culvert
-  Campground
-  Designated ORV Routes
-  Designated Snowmobile Trails

-  DNR - Primary Forest Road
-  DNR - Secondary Forest Road
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-  Private - Paved Road
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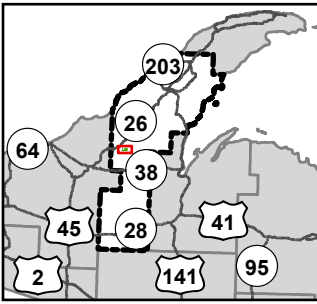
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Special Conservation Areas & Site Conditions Map

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T52N R36W, Sections 34-36.
County: Houghton
Unit: Baraga
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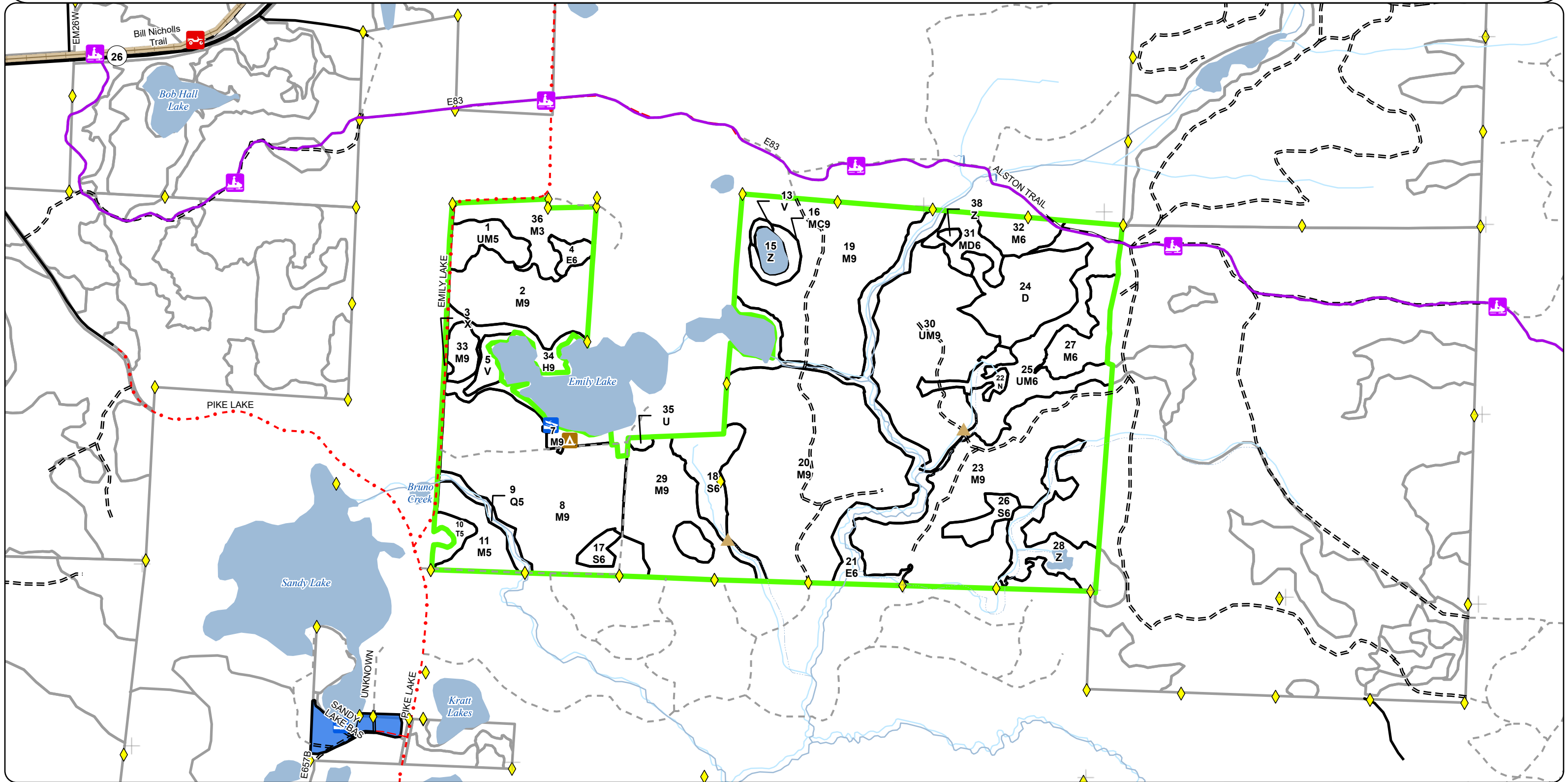
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- Intermittent Stream
- Perennial River

- Lakes and Rivers
- Counties
- Compartment Boundary
- Stand Boundaries
- SCA
- Cold Water Streams
- Boat Access Site



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+	Uneven-Aged	Total
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	14
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	48
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	8	0	4	24	0	0	0	0	0	36
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11
Northern Hardwood	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	574	597
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5
Treed Bog	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	120	132
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Total	81	23	0	0	0	0	0	0	0	31	0	4	24	5	0	0	0	768	936



Report 2 – Treatment Summary

Baraga Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 53
Total Compartment Acres: 936

Commercial Harvest - 146
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

		<div>ClearcutSelectionPatch ClearcutSeed TreeShelterwoodThinningOverstory RemovalSalvageOtherTotal Acres</div>									
Northern Hardwood		0	147	0	0	0	0	0	0	0	147
	Total	0	147	0	0	0	0	0	0	0	147

Proposed and Next Step Treatments by Method

		<div>HarvestSite PrepPlantingSeedingBurningPesticideMonitoringOtherNon-Forest Mgt.Total Acres</div>									
Current		147	0	0	0	0	0	136	0	0	283
	Total	147	0	0	0	0	0	136	0	0	283



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	Habitat Cut
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Proposed Treatments:

29	11053029- Selection	40.0	4112 - Maple, Beech, Cherry Association	9	81	111- 140	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 square feet of basal area. Favor leaving: red oak, hemlock, white pine and cedar, where present. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u> WLSMU-Kris Nault This compartment contains Lake Emily, three small unnamed lakes, and several unnamed designated trout streams. Maintain a buffer to the high bank of the valley wall along the unnamed designated trout stream that runs through stand 018. Maintain a buffer to the high bank of the valley wall along the unnamed designated trout stream that runs through stand 021. Maintain a buffer to the high bank of the valley wall along the unnamed designated trout stream that connects to Lake Emily and runs through stand 19 and 21. Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species. Snowmobile trail 109 will possibly be affected by the harvest of this stand. Add trail spec to contract.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
20	11053020- Selection	106.5	4112 - Maple, Beech, Cherry Association	9	119	111- 140	Harvest	Selection	411 - Northern Hardwood	Current	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 square feet of basal area. Favor leaving: red oak, hemlock, white pine and cedar, where present. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Any combination of the original stand's over story species prior to harvest.</p> <p><u>Other Comment:</u> WLSMU-Kris Nault This compartment contains Lake Emily, three small unnamed lakes, and several unnamed designated trout streams. Maintain a buffer to the high bank of the valley wall along the unnamed designated trout stream that runs through stand 018. Maintain a buffer to the high bank of the valley wall along the unnamed designated trout stream that runs through stand 021. Maintain a buffer to the high bank of the valley wall along the unnamed designated trout stream that connects to Lake Emily and runs through stand 19 and 21. Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species. Snowmobile trail 109 will possibly be affected by the harvest of this stand. Add trail spec to contract.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											

Approved Treatments:

32	11053032- Monitor	11.4	4112 - Maple, Beech, Cherry Association	6	81	81-110	Monitoring	Monitoring - Regeneration	411 - Northern Hardwood	Current	No
<p><u>Prescription Specs:</u></p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Any tree species that are currently represented in the over story.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2024</p>											



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	Habitat Cut
27	11053027- Monitor	16.0	4112 - Maple, Beech, Cherry Association	6	119	81-110	Monitoring	Monitoring - Regeneration	4199 - Other Mixed Upland Deciduous	Current	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any tree species that are currently represented in the over story. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2024											
23	11053023- Monitor	108.9	4115 - Y.Birch, Hemlock NH	9	119	81-110	Monitoring	Monitoring - Regeneration	4199 - Other Mixed Upland Deciduous	Current	No
<u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Any tree species that are currently represented in the over story. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2024											

Total Treatment
Acreage Proposed: 0

Report 4 – Site Conditions

Baraga Mgt. Unit

Jason Mittlestat: Examiner

Compartment: 53

Year of Entry: 2027



Availability for Management

Total Acres	Acres Available	Acres With Condition	Acres Not Available
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Dominant Site Conditions

5C	5F	2G	3D	3J
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6	6	0	0	Bog					
14	0	0	14	Hemlock					14
1	0	0	1	Low-Density Trees			1		
6	0	0	6	Lowland Conifers			6		
48	0	0	48	Lowland Deciduous			4		44
36	0	12	24	Lowland Spruce/Fir	12		24		
8	8	0	0	Marsh					
11	11	0	0	Mixed Upland Deciduous					
517	506	0	11	Northern Hardwood				5	6
5	0	0	5	Tamarack			5		
35	35	0	0	Treed Bog					
6	0	0	6	Upland Conifers					6
131	89	42	0	Upland Mixed Forest		42			
2	2	0	0	Urban					
29	29	0	0	Water					
855	686	54	115	Total Forested Acres	12	42	40	5	70
	80%	6%	13%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		2G: Too wet (sensitive soils, does not include access issues)	5	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:								
2	Unavailable		3J: Water quality/BMPs (stream, river, or lake)	12	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Baraga Mgt. Unit
Jason Mittlestat: Examiner

Compartment: 53
Year of Entry: 2027



3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	44	2G: Too wet (sensitive soils, does not include access issues)	2F: Too steep	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	2F: Too steep	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	14	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Baraga Mgt. Unit
Jason Mittlestat: Examiner

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10	Unavailable	3D: Recreational/scenic values	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Emily Lake Campground.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5F: Evaluated for Forest Health Considerations	42	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Upon field check, spruce percentage was reduced to 25% cover. Hemlock was increased to 22%.							

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



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	98.6	119	81-110	N/A	Summer 2016 blow down event. Timber salvage activities took place during the summer of 2016 in the north part of the stand and throughout the campground.																																																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Yellow Birch</td><td>5</td><td></td><td>10</td><td></td></tr><tr><td>Sugar Maple</td><td>40</td><td></td><td>10</td><td>55</td></tr><tr><td>Red Maple</td><td>50</td><td></td><td>10</td><td>119</td></tr><tr><td>Hemlock</td><td>5</td><td></td><td>16</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Yellow Birch	5		10		Sugar Maple	40		10	55	Red Maple	50		10	119	Hemlock	5		16		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Yellow Birch</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Balsam Fir</td><td>Full</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Hemlock</td><td>Full</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Sugar Maple</td><td>Full</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Maple</td><td>Full</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Yellow Birch	Medium	10 - 20 feet	10 - 20 feet	Balsam Fir	Full	10 - 20 feet	10 - 20 feet	Hemlock	Full	10 - 20 feet	10 - 20 feet	Sugar Maple	Full	5 - 10 feet	5 - 10 feet	Red Maple	Full	10 - 20 feet	10 - 20 feet	Cut in 2008	Not ready in 2024, Look to maybe harvest part of the stand in 2037?															
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9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	5.6	80	Unspecified	N/A	Wet drainage.																																																														
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11	4112 - Maple, Beech, Cherry Association	Poletimber Medium	16.4	119	51-80	N/A	cut in 2008. Blowdown event in 2016 and salvaged. Most likely will not be ready for harvest until 2057. Low stocking of merchantable timber.																																																														
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13	6225 - Bog	Unspecifed	1.1			No	Side slope to a sinkhole lake - 45% + slope.																																																														
15	500 - Water	Unspecified	4.9			No																																																															





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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
35	330 - Low-Density Trees	Unspecified	1.2			No	WET Bog...down in a hole																																																						
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36	4112 - Maple, Beech, Cherry Association	Sapling Well	23.2	7	Immature	N/A	Thinned 1997 - Almost Done HDWD 2019: Gawk Mix cut in 2018-19.																																																						
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