



Compartment Review Presentation

Baraga Forest Management Unit

Compartment 11082

Entry Year: 2027

Acreage: 2,433

County: Keweenaw

Management Area: Keweenaw

Stand Examiner: Brad Carlson

Legal Description:

T58N R28W, Sections 11, 14, 21, 22, 23, 24, 25, 26, 27, 28, 35, 36.

Identified Planning Goals:

Protect unique natural features.

Soil and topography:

This is an area of fairly rugged topography. Even the more level areas of upland are rocky. Soils are Trimountain-Lac La Belle- Michigamme complex, Arcadian-Dishno-Rock Outcrop complex, Arcadian-Michigamme-Rock Outcrop complex, Arcadian-Nipissing-Rock Outcrop complex, Montreal-Paavola-Dishno complex, Copper Harbor-Bete Grise complex. Lupton and Tawas mucks, Dawson and Loxley peat.

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

Lands to the north are commercial forest. Lands to the west are a mix of commercial forest and small private owners. State land is to the east, and Lake Superior is to the south. Use on land to the north is predominantly commercial forest.

Unique Natural Features:

Several high quality communities have been recorded near and within the compartment. They include Volcanic lakeshore cliff, Volcanic bedrock lakeshore, volcanic bedrock glade, Volcanic cobble shore, Boreal Forest, Sand & gravel beach, Patterned fen, Northern fen, Poor conifer swamp and Rich conifer swamp.

Archeological, Historical, and Cultural Features:

One archaeological site is located within this compartment. However, it has been determined to be not significant.

Special Management Designations or Considerations:

There are many natural communities throughout this compartment that are recognized by MNFI.

Watershed and Fisheries Considerations:

This compartment contains the Montreal River, which is a designated trout stream, Hoar Lake, Hoar Creek, Copper Creek, and several unnamed ponds. No specific comments other than follow BMP's.

Wildlife Habitat Considerations:

Maintain Montreal River vicinity in its natural state for scenic, water quality, and wildlife travel corridor purposes. This compartment features threatened and endangered plant species.

Mineral Resource and Development Concerns and/or Restrictions

No known active sand & gravel mining operations exist in the area. Glacial drift is often thin to absent across the compartment, with bedrock at or near the surface. There may be some potential for sand & gravel within the compartment on uplands. The compartment lies within the copper belt of the Keweenaw Peninsula, where native copper occurs in varying concentrations associated with the Portage Lake basalt flows. Most of the easily accessible and economic copper was mined out of the area during the historic copper boom, and there has not been any commercial copper mining in the district for many decades. Several abandoned mines and prospects occur north of the compartment, and there may be unsecured openings in the area. Mostly only former exploratory drill test holes occur within the compartment. Shaft(s), adit(s), and potential underground workings for the Manhattan Mine have been documented in Sec 11, but exact locations of mine features have not been verified in recent years and with recent technologies. While there still may be significant amounts of native copper deposits remaining within the region, they are not likely economical to mine. No active State metallic mineral leases or lease nominations occur in the region. Potential for additional commercial mining of copper or other metallic minerals within the compartment in the future is considered low at this time. There is no potential for economic oil and gas production in the UP.

Vehicle Access:

Access is from the end of US-41 east of Copper Harbor using the Mandan Road. DNR has easements for parts of that

road, as well as other roads accessing state land. The road system has have several improvements over the last decade and the ATV and Snowmobile clubs perform routine maintenance where the trail is dedicated.

Survey Needs:

If harvest activities are prescribed survey will be required.

Recreational Facilities and Opportunities:

Keweenaw ATV club has partnered with the DNR to build a parking area for users to access Fish Cove. There is rustic camp site and undeveloped boat access area on Hoar Lake. The Copper Harbor Trail Club - Keweenaw Point Trail Phase 3 is designed and ready to be build along the Lake superior shoreline east of the Montreal River and along the east side of the Montreal River corridor to the Mandan Road.

Fire Protection:

The Keystone Bay fire burn in the adjacent compartment. Fires exhibit ground fire behavior and have extremely limited road access.

Additional Compartment Information:

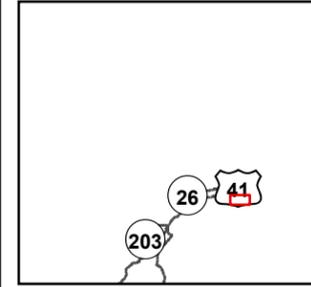
The following reports from the Inventory are attached:

- 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**

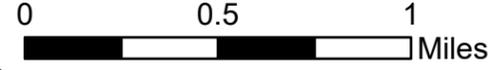
The following information is displayed, where pertinent, on the attached compartment maps:

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

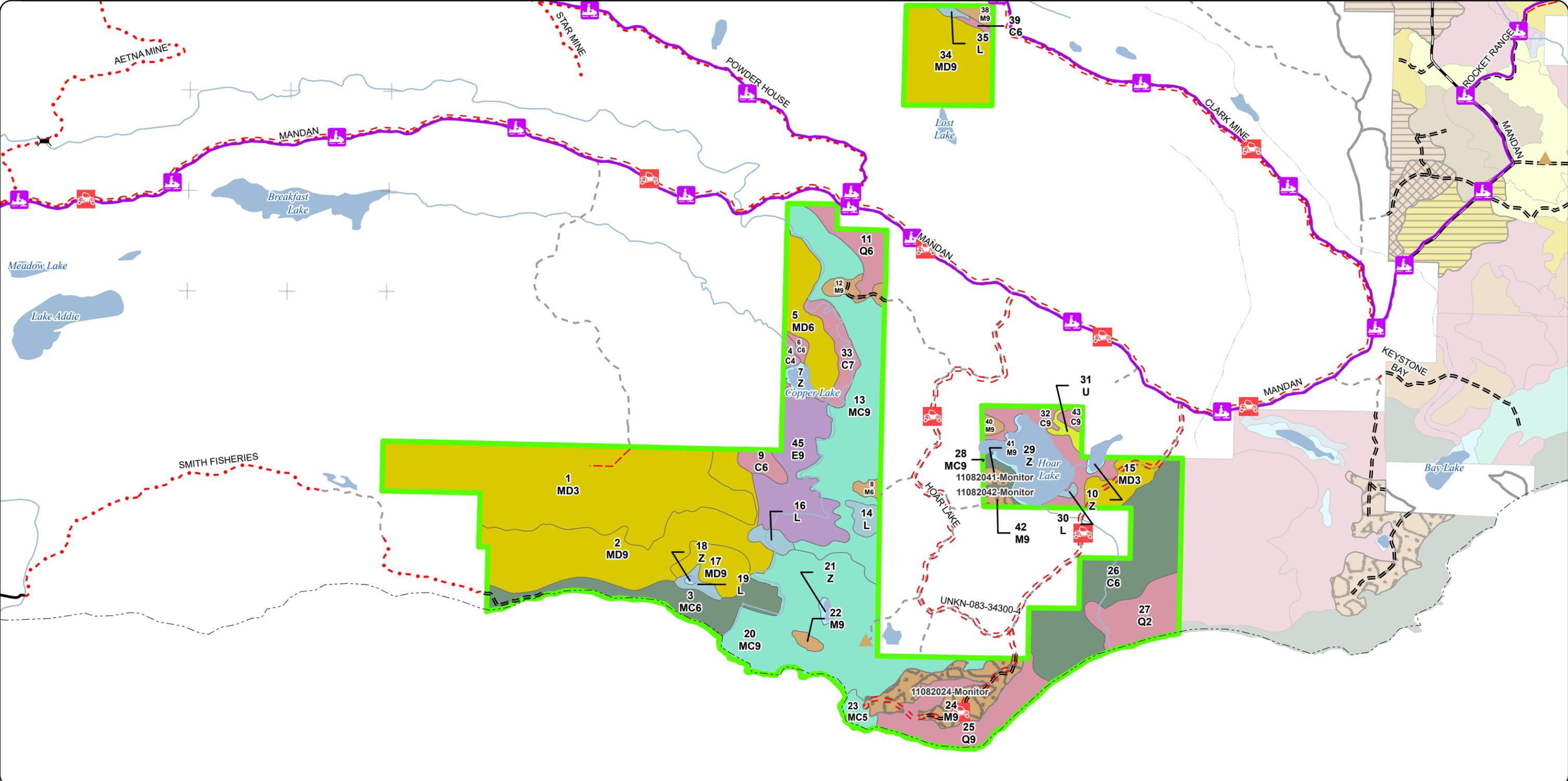
Cover Type & Treatments Map



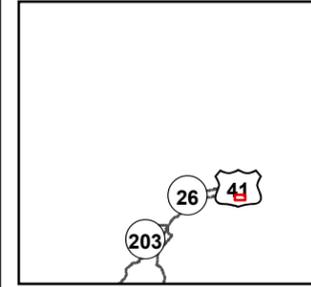
Compartment: 11082
 T58N, R28W, Sec: 11, 14, 21-28, 35, 36
 County: Keweenaw
 Unit: Baraga
 Mgmt. Area: Keweenaw
 YOE: 2027
 Acres: 2,433 GIS Calculated
 Examiner: Brad Carlson
 Date Exported: 04/28/2025
 Map Phase: Web Post



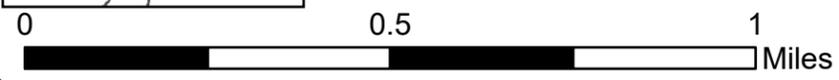
- ⊕ Remonumented Section Corners
- ▲ Berms
- ⚡ Bridges
- == Designated ORV Routes
- Designated Snowmobile Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- === DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- - - Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Monitoring - Regeneration
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub



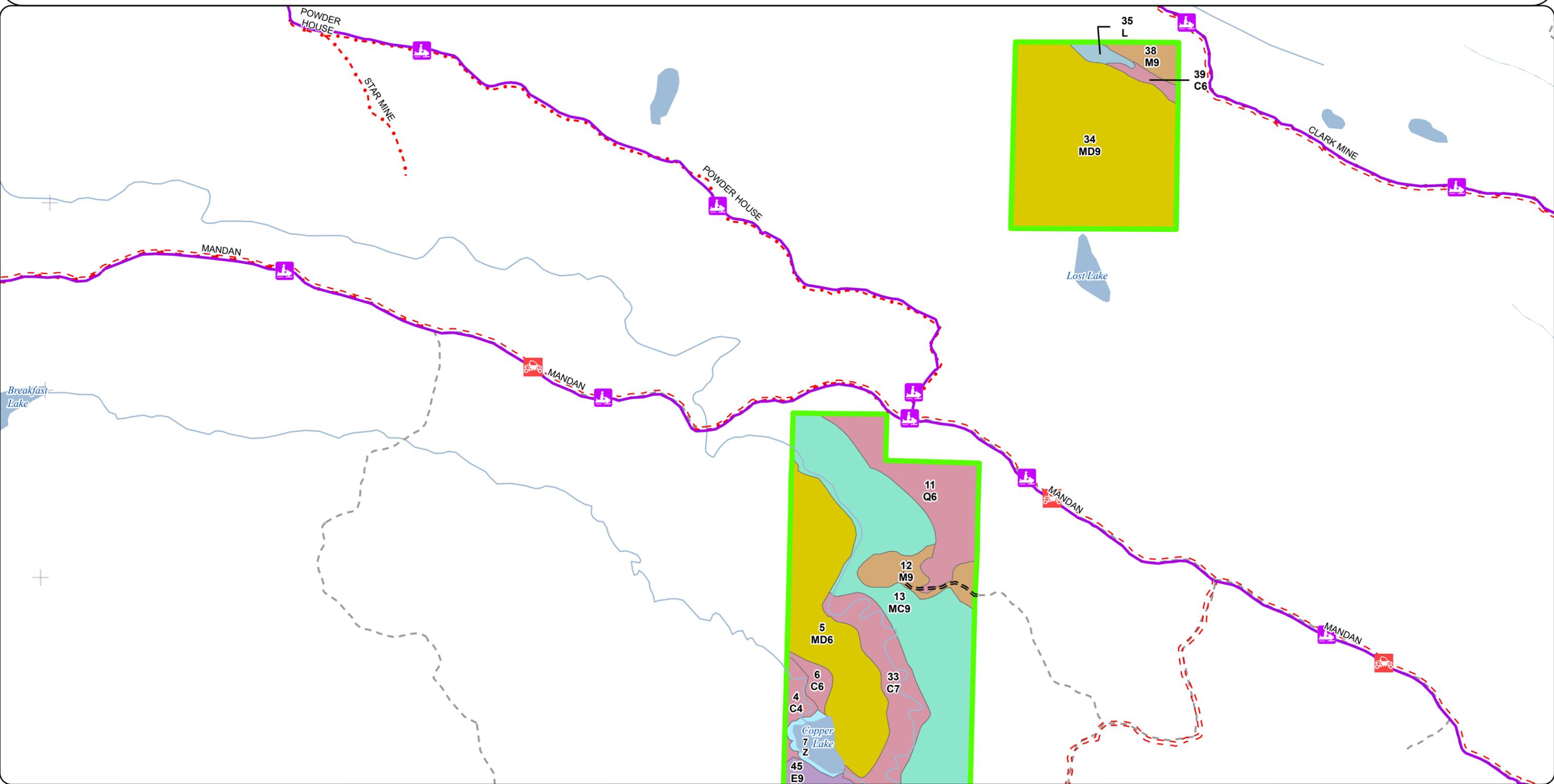
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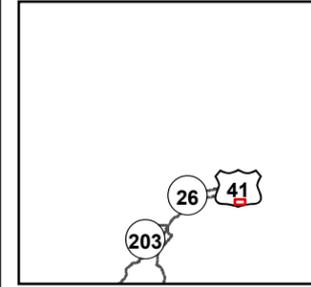
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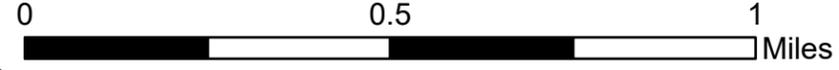
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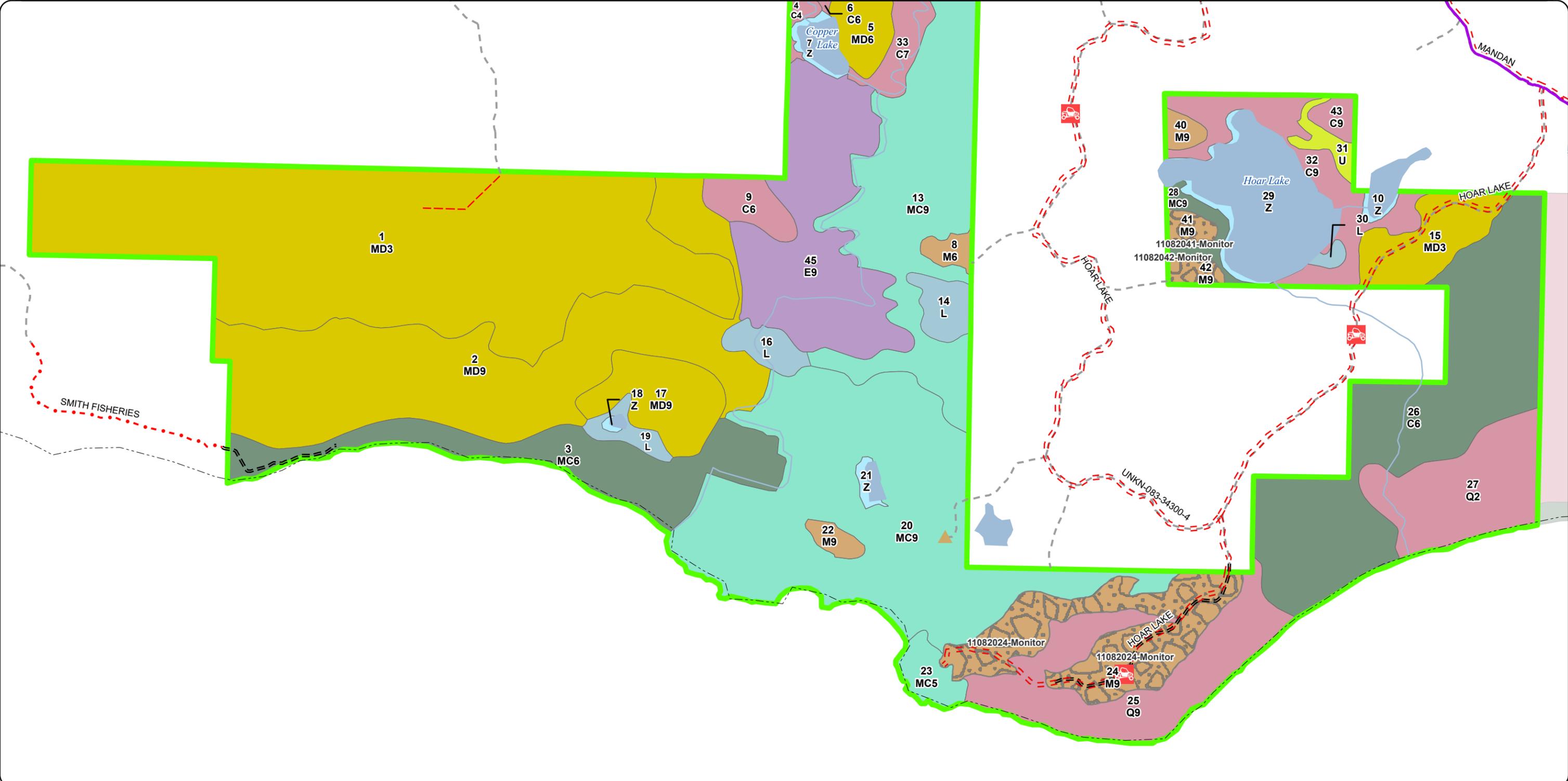
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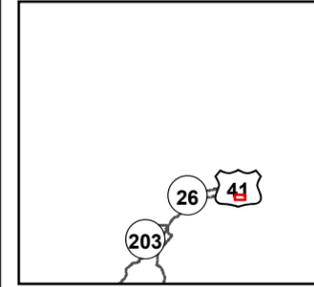
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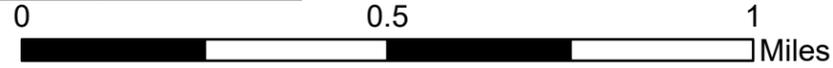
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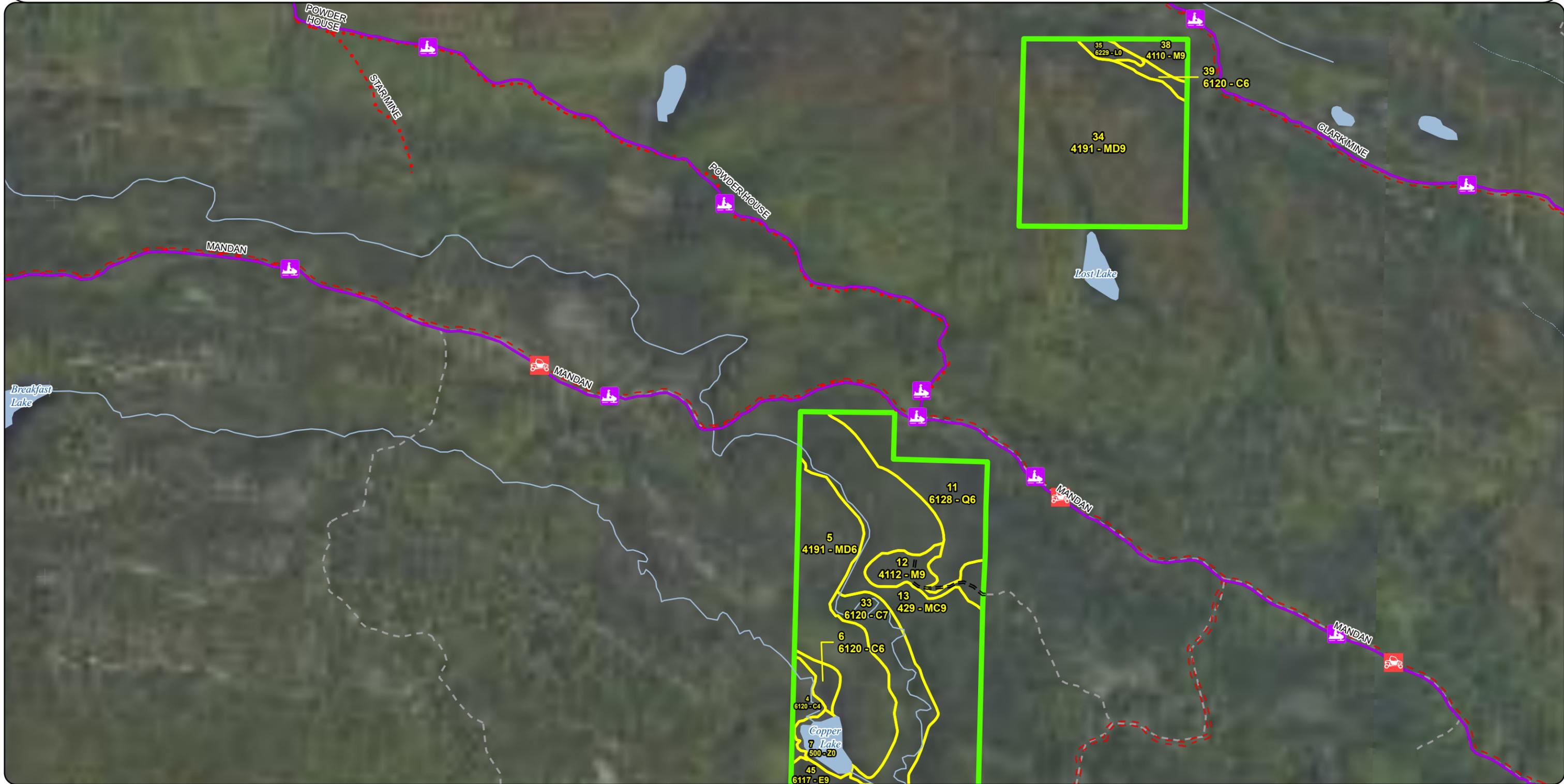
Stand Boundary Map



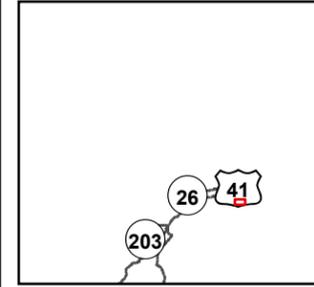
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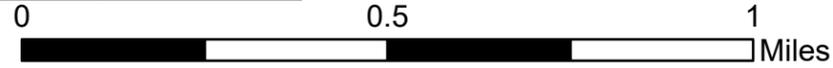
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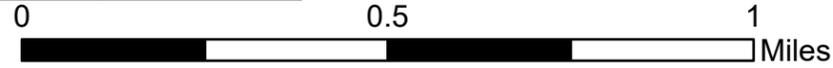
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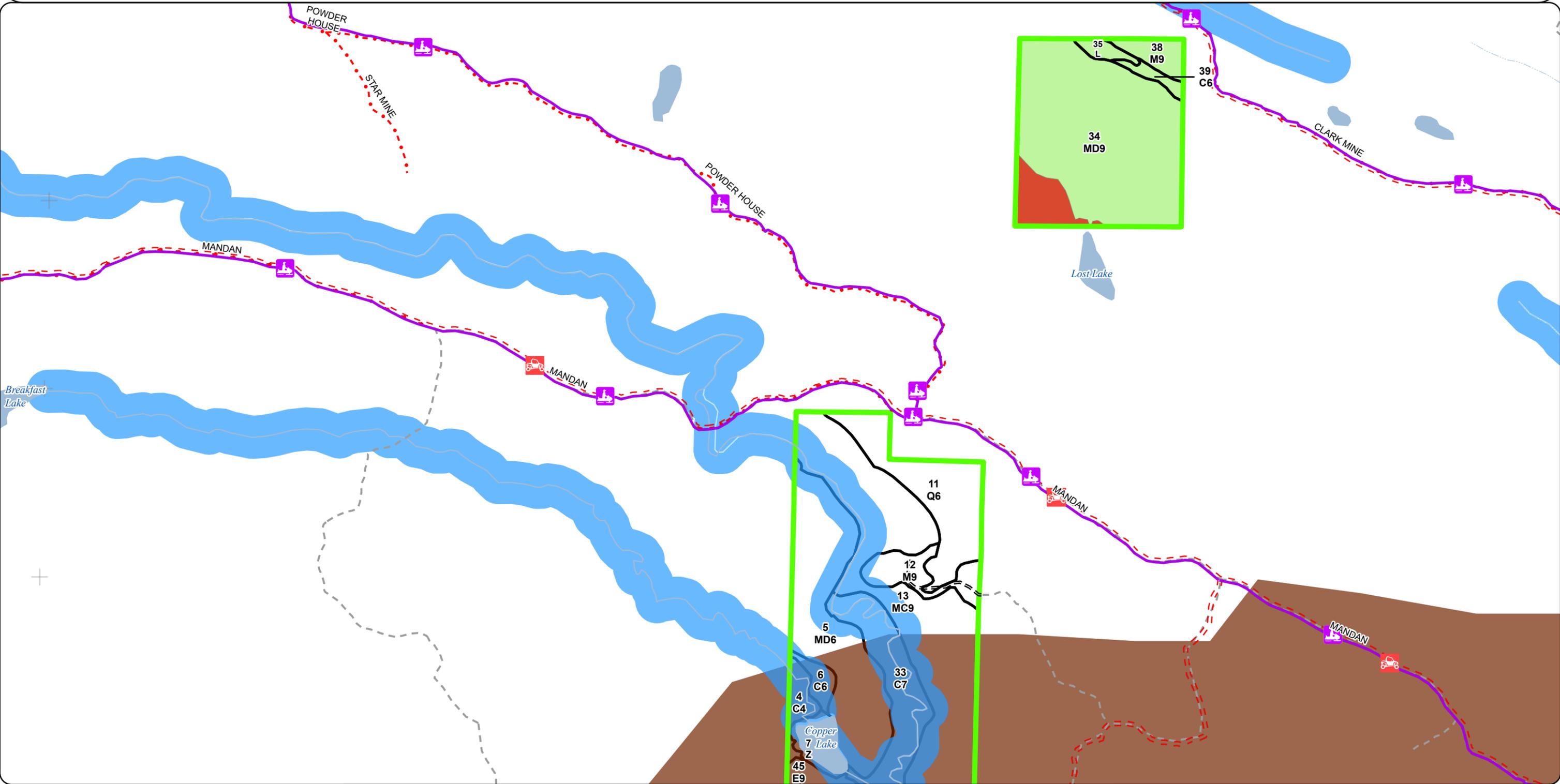


**Special Conservation Areas
& Site Conditions Map**

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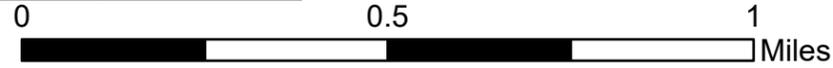


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- ▭ Stand Boundaries
- ▭ Ecological Reference Areas
- ▭ SCA
- Cold Water Streams
- ▭ High Priority Trout Stream Buffer
- ▭ Type 1 and Type 2 Old Growth
- ▭ Deer Winter Range
- ▭ Possible Type 2 Old Growth

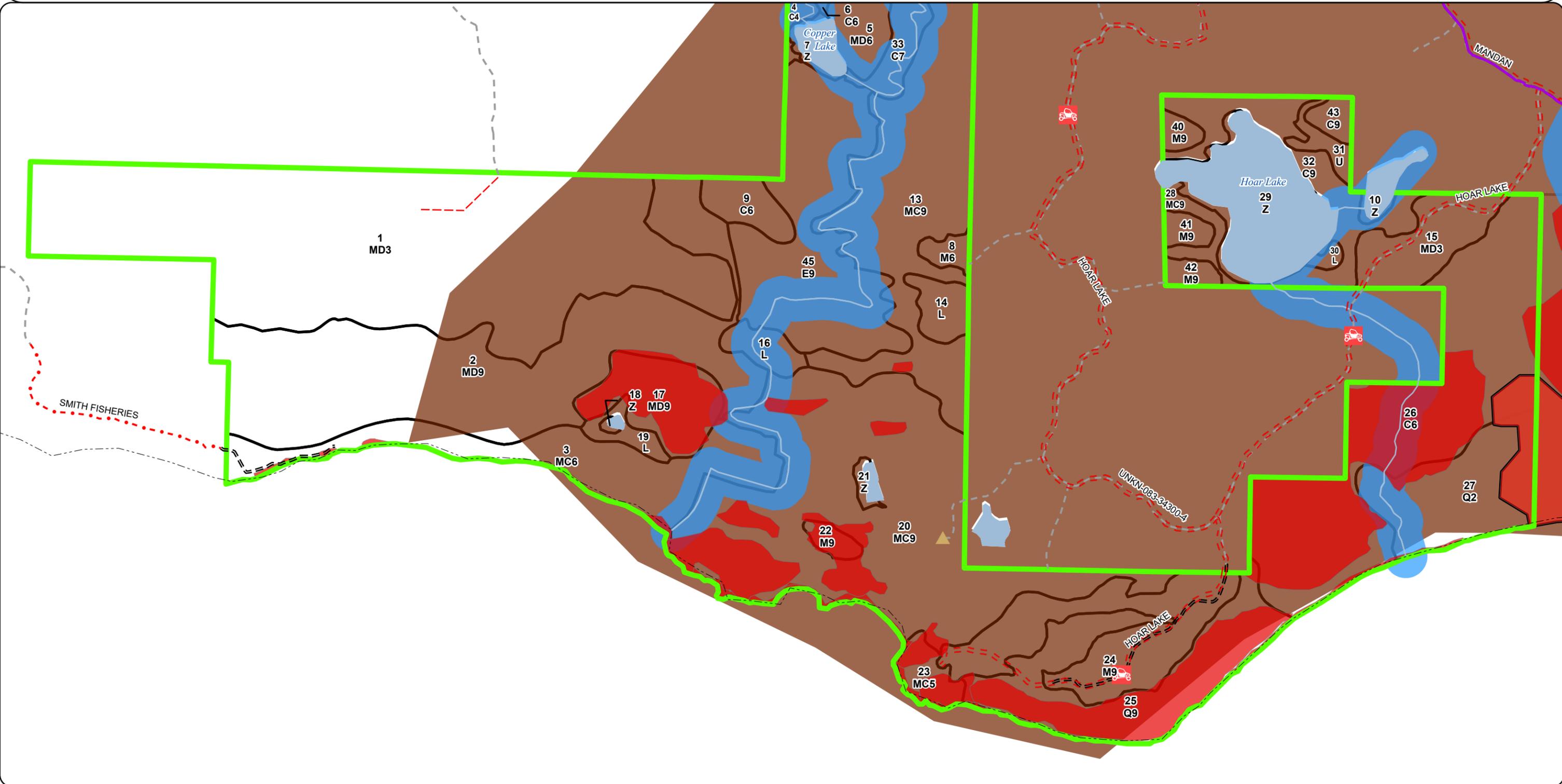


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Report 1 – Total Acres by Cover Type and Age Class



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
Cedar	0	0	0	0	0	0	0	193	0	7	0	4	22	0	0	0	0	95	321
Low-Density Trees	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	0	0	69	0	0	92	40	0	0	0	0	0	201
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124	124
Lowland Shrub	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Mixed Upland Deciduous	0	37	398	0	0	0	0	71	0	0	0	0	0	0	0	0	0	400	906
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	135	135
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	229	0	0	0	0	380	609
Water	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Total	137	37	398	0	0	0	0	264	69	7	0	96	291	0	0	0	0	1134	2433



Report 2 – Treatment Summary

Baraga Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 82
Total Compartment Acres: 2,433

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgr.	Total Acres
Current	0	0	0	0	0	94	0	0	94	
Total	0	0	0	0	0	94	0	0	94	



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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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Approved Treatments:

42	11082042-Monitor	6.2	4119 - Mixed Northern Hardwoods	9	109	51-80	Monitoring	Monitoring - Regeneration	4110 - Sugar Maple Association	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species that are currently represented in the over story. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2024</p>										
41	11082041-Monitor	6.6	4119 - Mixed Northern Hardwoods	9	109	51-80	Monitoring	Monitoring - Regeneration	4110 - Sugar Maple Association	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species that are currently represented in the over story. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2024</p>										
24	11082024-Monitor	80.7	4119 - Mixed Northern Hardwoods	9	109	81-110	Monitoring	Monitoring - Regeneration	4110 - Sugar Maple Association	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Any tree species that are currently represented in the over story. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2024</p>										

Total Treatment Acreage Proposed: 0



Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions						
		With Condition				2F	2G	3A	3D	3E	3J	3K
320	0	0		320	Cedar		193	4	64		60	
8	8	0		0	Low-Density Trees							
202	0	0		202	Lowland Conifers		69		133			
124	0	0		124	Lowland Deciduous				124			
41	41	0		0	Lowland Shrub							
906	435	0		472	Mixed Upland Deciduous	237		123	71			41
135	94	0		41	Northern Hardwood			8	21		6	6
607	0	0		607	Upland Conifers				320	13	10	263
88	88	0		0	Water							
2,431	665			1,765	Total Forested Acres	237	262	134	733	13	75	310
	27%			73%	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	Unavailable	3A: Conservation values incompatible with harvest at this time	135	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: Stand is surrounded by a cliff. Potential type 2 old growth.							
2	Unavailable	2F: Too steep	237	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Bluff dropping down to Lake Superior. Too Steep, erosion hazard.							
3	Unavailable	3D: Recreational/scenic values	92	3K: Rare or unique landforms	Unspecified	Unspecified	Unspecified
Comments: ERA. Volcanic Bedrock Glade along the shoreline. Mouth of Montreal River on eastern end of stand.							

Report 4 – Site Conditions

Baraga Mgt. Unit
Brad Carlson: Examiner

Compartment: 82
Year of Entry: 2027



4	Unavailable	3D: Recreational/scenic values	549	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Montreal River corridor, potential natural and scenic river.							
17	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	76	Unspecified	Unspecified	Unspecified	Unspecified
Comments: No road to stand, private property. Stand slopes to the lake. Low volume, scattered log trees with a sapling understory.							
20	Unavailable	3K: Rare or unique landforms	270	3D: Recreational/scenic values	Unspecified	Unspecified	Unspecified
Comments: ERA. Volcanic Bedrock Glade. Montreal River Corridor, Lake Superior Shoreline.							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	262	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stunted cedar swamp. Very wet ground, stocking tapers to sapling sized trees towards the inner part of the stand.							
23	Unavailable	3D: Recreational/scenic values	93	3J: Water quality/BMPs (stream, river, or lake)	3K: Rare or unique landforms	Unspecified	Unspecified
Comments: ERA. Volcanic Bedrock Glade along the Shoreline.Lake Superior shoreline.							
24	Unavailable	3E: Easement/lease, non-military (e.g. Consumers Power red pine, etc.)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA. Volcanic Bedrock Glade. Michigan Nature Association hold a conservation easement over this parcel. The Kenneth and Timothy Gunn Memorial Sanctuary.							



26	Unavailable	3K: Rare or unique landforms	41	3D: Recreational/scenic values	Unspecified	Unspecified	Unspecified
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Comments:

ERA. Volcanic Bedrock Glade.
Potential Wild and Scenic River, Montreal River Corridor.

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
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth	SCA	8
Comments Stand appears to not have been harvested. Block with the rest of the quarter section for type 2 old growth.				
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth	SCA	123
Comments Stand is surrounded by a cliff. Potential type 2 old growth.				
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth	SCA	4
Comments Block in with rest of the quarter section for type 2 old growth.				
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth	SCA	4
Comments Block with the rest of the quarter section for type 2 old growth.				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	397.7	11	1-50	N/A	Cutting was finished the summer of 2014. Montreal Hdwd. The eastern part of the stand was harvested aprx 3 years prior to the far western part. All conifer and most of the oak was left from the parent stand.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5		18	
Balsam Fir	5	Sapling	5	
Yellow Birch	5	Log	1	
Quaking Aspen	30	Log	2	11
Red Oak	10		18	80
White Spruce	5	Sapling	5	
Northern White Cedar	5	Sapling	6	
Sugar Maple	10	Log	1	
Red Maple	20	Log	2	
Paper Birch	5	Log	1	

2	4199 - Other Mixed Upland Deciduous	Sawtimber Well	236.9	109	111-140	N/A	VERY Steep hillside / bluff down to Smiths Fisheries. OPIC - FMD: Dry mesic northern forest. Rugged topography, steep slopes. Possible threatened or endangered plants. Adjacent to Montreal corridor.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5		14		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Yellow Birch	5		14		Ironwood	Medium	10 - 20 feet	10 - 20 feet
Quaking Aspen	5		14		Sugar Maple	Medium	10 - 20 feet	10 - 20 feet
Red Oak	30		14	80	Red Maple	Low	10 - 20 feet	10 - 20 feet
Sugar Maple	40		14	109	Red Oak	Low	10 - 20 feet	10 - 20 feet
Red Maple	10		14		Northern White Cedar	Low	>20 feet	>20 feet
Paper Birch	5		10					

3	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	91.6	109	111-140	N/A	Narrow level area between hill and Lake Superior. There is a 10 ft drop cliff to Lake Superior. There is a popular hiking trail along edge. Trails get frequent use. This zone has most of the threatened and endangered plants.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10		12	
White Spruce	10		12	84
Black Spruce	25		10	80
Northern White Cedar	25		16	109
Red Maple	10		14	
Paper Birch	10	Seedling	8	

4	6120 - Lowland Cedar	Poletimber Poor	7.1	80	1-50	N/A	OPIC - FMD: Part of Montreal River corridor.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	100	Sapling	5	80	Tag Alder	High	5 - 10 feet	5 - 10 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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5	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	71.4	60	51-80	N/A	There is a pretty good flush of aspen saplings in the understory from having the most of the over story aspen removed aprx 15 years ago. Poor quality hardwood poles with some aspen poles. Stand was thinned before purchase. There is a logging road that extends to Copper Lake.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	8		18	
Balsam Fir	15	Seedling	8	
Sugar Maple	5	Seedling	8	
Red Maple	15		10	
Paper Birch	10	Seedling	8	
Yellow Birch	5	Seedling	8	
Quaking Aspen	30		10	60
White Spruce	2	Seedling	8	
Black Spruce	5	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	10 - 20 feet	10 - 20 feet
Quaking Aspen	High	10 - 20 feet	10 - 20 feet
White Spruce	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	High	10 - 20 feet	10 - 20 feet

6	6120 - Lowland Cedar	Poletimber Well	5.0	110	141-170	N/A	Part of Montreal River corridor.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Seedling	8	
Red Maple	5		10	
Black Spruce	10	Seedling	8	
Northern White Cedar	60		10	110
Yellow Birch	5	Seedling	8	
Balsam Fir	15	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
White Pine	Low	10 - 20 feet	10 - 20 feet
Red Maple	Low	10 - 20 feet	10 - 20 feet
Northern White Cedar	Low	10 - 20 feet	10 - 20 feet

7	500 - Water	Unspecified	9.8			No	Copper Lake.
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8	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.4	109	111-140	N/A	Montreal River corridor. Possible endangered or threatened plants. There are old logging roads within the stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	2		10	
Northern White Cedar	3		10	
Balsam Fir	2		10	
Sugar Maple	65		10	109
Red Maple	20		10	80
Paper Birch	3		10	
Yellow Birch	5		10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Full	10 - 20 feet	10 - 20 feet
Paper Birch	Low	10 - 20 feet	10 - 20 feet
Northern White Cedar	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	Low	10 - 20 feet	10 - 20 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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9	6120 - Lowland Cedar	Poletimber Well	16.9	110	141-170	N/A	Part of Montreal River corridor.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Seedling	8		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Yellow Birch	5	Seedling	8		Red Maple	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	15	Seedling	8		Northern White Cedar	Low	10 - 20 feet	10 - 20 feet
Red Maple	5	Seedling	8		White Pine	Low	10 - 20 feet	10 - 20 feet
Black Spruce	10	Seedling	8					
Northern White Cedar	60		10	110				

10	500 - Water	Unspecified	3.9			No	
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11	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	40.4	110	141-170	N/A	Montreal River corridor.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	20	Seedling	9		Red Maple	Low	10 - 20 feet	10 - 20 feet
Northern White Cedar	40		12	110	Balsam Fir	High	10 - 20 feet	10 - 20 feet
Balsam Fir	10	Seedling	9		Black Spruce	Low	10 - 20 feet	10 - 20 feet
White Pine	10	Seedling	9		Northern White Cedar	Low	10 - 20 feet	10 - 20 feet
Yellow Birch	5	Seedling	9					
Red Maple	10	Seedling	9					
Paper Birch	5	Seedling	9					

12	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.0	109	111-140	N/A	Road running through the center of the stand. Very poor quality timber. Wet areas will reduce acreage from treatment shape. Montreal corridor.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2		10		Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Yellow Birch	5		12		Sugar Maple	High	10 - 20 feet	10 - 20 feet
Quaking Aspen	3	Seedling	8		Paper Birch	Low	10 - 20 feet	10 - 20 feet
Northern White Cedar	5		10					
Sugar Maple	70		14	109				
Red Maple	10		12	80				
Paper Birch	5		12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																															
13	429 - Mixed Upland Conifers	Sawtimber Well	228.8	110	111-140	N/A	Possible type 2.Montreal River corridor. Possible endangered or threatened plants. There are old logging roads within the stand.																																																																															
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14	622 - Lowland Shrub	Unspecified	13.4			No	Beaver flooded and killed timber.Part of Montreal River corridor.																																																																															
15	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	37.2	8	1-50	N/A	Stand was harvested by TRG before acquired through a 3 party exchange.																																																																															
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18	500 - Water	Unspecified	1.0			No	Include with Montreal River corridor.																																																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19 622 - Lowland Shrub Unspecified 8.8 No Part of Montreal River corridor. Proposed for natural area status by advisory group

20 429 - Mixed Upland Conifers Sawtimber Well 263.9 109 111-140 N/A Part of Montreal River Corridor Probable threatened or endangered plants. There are trails through this stand - old logging roads. There are proposed trails to the mouth of Montreal River from Fish Cove. Lake superior shore is very scenic. There are old commercial fish sites on fish cove.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	30		10	109	White Pine	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	5	Seedling	8		Red Maple	Medium	10 - 20 feet	10 - 20 feet
Sugar Maple	5		10		Balsam Fir	High	10 - 20 feet	10 - 20 feet
Red Maple	10		10		White Spruce	Low	10 - 20 feet	10 - 20 feet
Paper Birch	5		10		Northern White Cedar	Low	10 - 20 feet	10 - 20 feet
Yellow Birch	5		10		Yellow Birch	Low	10 - 20 feet	10 - 20 feet
Quaking Aspen	10		10					
White Spruce	5		10					
Black Spruce	5	Seedling	8					
Northern White Cedar	20	Seedling	9					

21 500 - Water Unspecified 4.0 No Part of Montreal River corridor.

22 4110 - Sugar Maple Association Sawtimber Well 6.0 109 141-170 N/A Hardwood knob, does not seem to be a bedrock glade at all. Also listed as rock outcrop ERA basalt bedrock glade G3 S2 EO rank AB. Has seen past management from previous owner.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	3		14		Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Sugar Maple	90		12	109	Sugar Maple	Medium	10 - 20 feet	10 - 20 feet
Red Maple	5		12					
Northern White Cedar	2		10					

23 429 - Mixed Upland Conifers Poletimber Medium 14.1 109 1-50 N/A Rhyolite outcrop. Significant geologic feature. Michigan Nature Association holds non-development easement for this property (Kenneth and Timothy Gunn Memorial Sanctuary). Should be included in proposed natural area. ERA basalt bedrock glade G3 S2 EO rank AB

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	30		18	109	Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	20	Seedling	8					
Quaking Aspen	20		10					
Red Maple	5		9					
Paper Birch	10		9					
Black Spruce	10	Seedling	8					
Northern White Cedar	5		12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																	
24	4119 - Mixed Northern Hardwoods	Sawtimber Well	81.0	109	81-110	N/A	11-020-17 Keweenaw Hdwds, Harvested 2021. For being log sized timber, the quality is more towards a pulp stand. Acreage will be reduced due to topo and swamp. Possible HAL issue.																																																																	
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25	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	92.4	109	81-110	N/A	Lake Superior shore. Lots of rocks and blowdown. Cobble / gravel beach. Area was probably never cut. Beach is ERA, basalt bedrock lakeshore G3 S2 EO rank B																																																																	
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26	42360 - Upland Cedar	Poletimber Well	193.2	65	51-80	N/A	Stunted cedar, swamp. Looks to grade to stunted black spruce to the east. 'minimum impact' zone. Part of a 'rich conifer swamp and fen complex' that extends to the east. Consider for natural area designation.																																																																	
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27	612 - Lowland Coniferous Forest	Sapling Medium	69.2	70	1-50	N/A	'minimum impact' zone. Part of rich conifer swamp and fen complex that extends to the east. Campsite at the mouth of Hoar creek. Consider for natural area listing.																																																																	
28	42390 - Mixed Non-Pine Upland Conifers	Sawtimber Well	10.4	109	111-140	N/A	Cedar stand ringing Hoar Lake.																																																																	
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29	500 - Water	Unspecified	69.1			No	Hoar Lake.																																																																	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
30	622 - Lowland Shrub	Unspecified	2.7			No	Holly "bog" with Stunted cedar Proposed minimum impact zone.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Northern White Cedar	Medium	5 - 10 feet	5 - 10 feet					
								Michigan Holly	Medium	5 - 10 feet	5 - 10 feet					
31	330 - Low-Density Trees	Unspecified	8.0			No	Proposed minimum impact zone.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Yellow Birch	Low	10 - 20 feet	10 - 20 feet					
								Red Maple	Low	10 - 20 feet	10 - 20 feet					
								Paper Birch	Low	10 - 20 feet	10 - 20 feet					
								Tag Alder	Medium	5 - 10 feet	5 - 10 feet					
								Black Spruce	Medium	10 - 20 feet	10 - 20 feet					
								Northern White Cedar	High	10 - 20 feet	10 - 20 feet					
								Michigan Holly	High	5 - 10 feet	5 - 10 feet					
32	6120 - Lowland Cedar	Sawtimber Well	52.6	109	111-140	N/A	Cedar stand ringing Hoar Lake.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Balsam Fir	7	Seedling	8		Northern White Cedar	Medium	10 - 20 feet	10 - 20 feet
								White Spruce	3		10		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
								Black Spruce	5	Seedling	8		Red Maple	Low	10 - 20 feet	10 - 20 feet
								Northern White Cedar	55		10	109	Tag Alder	Low	5 - 10 feet	5 - 10 feet
								Red Maple	10		8					
								Paper Birch	10		10					
								White Pine	5		16					
								Yellow Birch	5		10					
								33	6120 - Lowland Cedar	Sawtimber Poor	34.8	109	Unspecified	N/A	Montreal River corridor.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height									Size
White Pine	20		16		Balsam Fir	Medium	10 - 20 feet									10 - 20 feet
Northern White Cedar	50		10	109	Northern White Cedar	Medium	10 - 20 feet									10 - 20 feet
Yellow Birch	5		10		Red Maple	Medium	10 - 20 feet									10 - 20 feet
Balsam Fir	15	Seedling	8		Tag Alder	Medium	5 - 10 feet									5 - 10 feet
Red Maple	10		10													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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34 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 122.6 109 111-140 N/A Top of ridge, no access. About 20-30 feet sheer cliff around the stand. Type 2 old growth.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5		12		Sugar Maple	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	5	Seedling	8		Red Maple	Low	10 - 20 feet	10 - 20 feet
Red Oak	25		12	109	Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
White Spruce	5		12		Red Oak	Low	10 - 20 feet	10 - 20 feet
Northern White Cedar	15		12		Northern White Cedar	Low	10 - 20 feet	10 - 20 feet
Sugar Maple	20		12		White Pine	Low	10 - 20 feet	10 - 20 feet
Red Maple	10		12					
Paper Birch	5		12					
Yellow Birch	5		12					
Quaking Aspen	5		12					

35 6229 - Mixed Lowland Shrub Unspecified 3.7 No Beaver flooding.

38 4110 - Sugar Maple Association Sawtimber Well 8.2 109 111-140 N/A Block with rest of the quarter section for type 2 old growth.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	5		10		Northern White Cedar	Low	>20 feet	>20 feet
Sugar Maple	80		16	109	Sugar Maple	Medium	10 - 20 feet	10 - 20 feet
Red Maple	10		16		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Yellow Birch	5		16					

39 6120 - Lowland Cedar Poletimber Well 3.6 100 81-110 N/A Cedar swamp, combine with rest of quarter section for type 2 old growth.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Seedling	6		Tag Alder	Low	5 - 10 feet	5 - 10 feet
Black Ash	5	Seedling	6		Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Red Maple	5	Seedling	6		Northern White Cedar	Low	10 - 20 feet	10 - 20 feet
Paper Birch	5	Seedling	8					
White Spruce	5		12					
Northern White Cedar	75	Seedling	8	100				

40 4112 - Maple, Beech, Cherry Association Sawtimber Well 5.6 109 81-110 N/A Poor access (pvt), no road, poor stocking and poor quality timber. Fringes are wet ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	2	Seedling	8		Sugar Maple	Full	10 - 20 feet	10 - 20 feet
Yellow Birch	3		12		Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Sugar Maple	75		14	109				
Red Maple	10		12					
Paper Birch	5	Seedling	8					
Northern White Cedar	5		10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.6	109	51-80	N/A	Keweenaw Hardwoods, Harvested 2021. 11-020-17.BA 80-120. Has been thinned before.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Seedling	8	
Sugar Maple	40		10	109
Red Maple	30		10	55
Paper Birch	10	Seedling	8	
White Spruce	2		12	
Northern White Cedar	3		10	
Yellow Birch	5		14	
Quaking Aspen	5		10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	10 - 20 feet	10 - 20 feet
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet

42	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.2	109	51-80	N/A	Keweenaw Hardwoods, Harvested 2021. 11-020-17.BA 80-120. Has been thinned before.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Seedling	8	
White Spruce	2		12	
Northern White Cedar	3		10	
Sugar Maple	40		10	109
Red Maple	30		10	55
Paper Birch	10		10	
Yellow Birch	5		14	
Quaking Aspen	5		10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	10 - 20 feet	10 - 20 feet
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet

43	6120 - Lowland Cedar	Sawtimber Well	6.9	109	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5		16	
Yellow Birch	5		10	
Red Maple	10	Seedling	8	
Paper Birch	10		10	
White Spruce	3		10	
Black Spruce	5	Seedling	8	
Northern White Cedar	55		10	109
Balsam Fir	7	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Northern White Cedar	Medium	10 - 20 feet	10 - 20 feet
Red Maple	Low	10 - 20 feet	10 - 20 feet
Tag Alder	Low	10 - 20 feet	10 - 20 feet



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	123.5	109	81-110	N/A	Part of Montreal River corridor. . Type 2 old growth. No access, over a cliff to reach the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Seedling	8	
Red Maple	15		12	109
Paper Birch	15		12	
White Pine	5		16	
Black Ash	10		12	
Yellow Birch	15		12	
Quaking Aspen	10		12	
White Spruce	5		12	
Black Spruce	5	Seedling	8	
Northern White Cedar	15		12	

Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Northern White Cedar	Medium	10 - 20 feet	10 - 20 feet
Red Maple	Medium	10 - 20 feet	10 - 20 feet
Black Ash	Low	10 - 20 feet	10 - 20 feet