



# Compartment Review Presentation

## Baraga Forest Management Unit

Compartment 11081

Entry Year 2026

Acreage: 3,821

County Keweenaw

Management Area: Keweenaw

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**Stand Examiner:** Fred Hansen

### Legal Description:

Keweenaw County, Grant Township  
T58N R27W, Section 3, 5, 6, 7, 8, 9, 10, 16, 17

### Identified Planning Goals:

The Keweenaw Tip management area is on a bedrock ridge complex in northern Keweenaw County. The state forest covers 8,716 acres and is mostly contiguous. The major ownerships in this vicinity are forest industry and non-industrial private. The management area is dominated by the northern hardwood, upland spruce/fir and cedar cover types. Other attributes that played a role in the definition of this management area include:

- Dominated by two natural communities: mesic northern forest and boreal forest;
- Mid-range in site quality;
- Most of the lands in this management area were acquired after 2000;
- High recreational interest (recommendations of the Keweenaw Point Citizens Advisory Committee); and
- Opportunities to enhance biodiversity.

The management priorities for this area are to develop its recreational characteristics while preserving and enhancing the native biodiversity. Management for timber products will be limited to when compatible with the other priorities.

### Soil and topography:

The upland is hilly to rolling; soils are Arcadian-Dishno-Rock Outcrop complex, Arcadian-Michigamme-Rock Outcrop complex, Trimountain-Lac La Belle-Michigamme complex, Gratiot-Sabattis complex, Montreal-Paavola-Dishno complex, Wallace-Rubicon sands on the upland, and Lupton and Tawas mucks, Tawas-Deford mucks in the lowlands.

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

Lands to the west are forest industry; there are small private ownerships to the east, and state land to the south. The Nature Conservancy owns property to the north.

### Unique Natural Features:

There are threatened and endangered plants in the area.

### Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

### Special Management Designations or Considerations:

This has not been designated as a special management area; however, it will be treated as a highly sensitive area.

### Watershed and Fisheries Considerations:

Stream crossings on Union Creek should be upgraded.

### Wildlife Habitat Considerations:

Feature oak where present; mark trees growing under and around oaks so as to release oak crowns and to stimulate oak reproduction. This compartment features threatened and endangered plant species.

### Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till and lacustrine (lake) sand and gravel thin to discontinuous along the coastline. The Precambrian Copper Harbor Conglomerate and Portage Lake Conglomerate sub crop below the glacial drift. The nearest active sand & gravel mining operations are several miles away. Glacial drift is very thin to absent across most of the compartment, with bedrock at or near the surface. Potential for sand & gravel within the compartment is limited and may only be sourced from tailings piles from abandoned copper mines. The compartment appears to lie on the edge of the copper belt of the Keweenaw Peninsula, where native copper occurs in varying concentrations associated with the Portage Lake basalt flows. Historic copper mines and explorations occur just west of the compartment, but there is no evidence of past activity within the compartment. Most of the accessible and economic copper was mined out of the region during the historic copper boom, and there has not been any commercial copper mining in the district for decades.

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. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

**Vehicle Access:**

Access is via the Mandan Road off of the end of US-41. Access is poor (the roads are rough). Stream crossings need to be upgraded. Roads should be upgraded, but not to high speed gravel roads.

**Survey Needs:**

Some survey work will need to be completed in section 8 and 17 before timber sale preparation can take place.

**Recreational Facilities and Opportunities:**

The Mandan Road from the Clark Mine Road to the Highrock Bay and the Highrock Bay Road are a designated Snowmobile Trail. There designated ATV trail in the area but none in the compartment, but there are abundant opportunities for ATV riding. The advisory committee recommended several small campsites, hiking trails and a parking area at High Rock Bay. Compartment also contains several miles of mountain bike trails.

**Fire Protection:**

This area is usually not a fire prone area, but in August of 2006 the Keystone Bay Fire consumed more than 100 acres of mixed conifer and cedar swamp due to severe drought conditions. This fire occurred just south of the compartment line in compartment 75.

**Additional Compartment Information:**

A citizens committee made recommendations for management for this compartment and compartments 75 and 82. These recommendations and the recommendations from the Baraga Management Unit are still in place but no action has been taken to finalize their status..

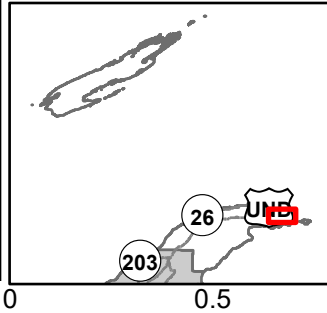
**The following reports from the Inventory are attached:**

- 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**

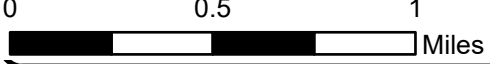
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

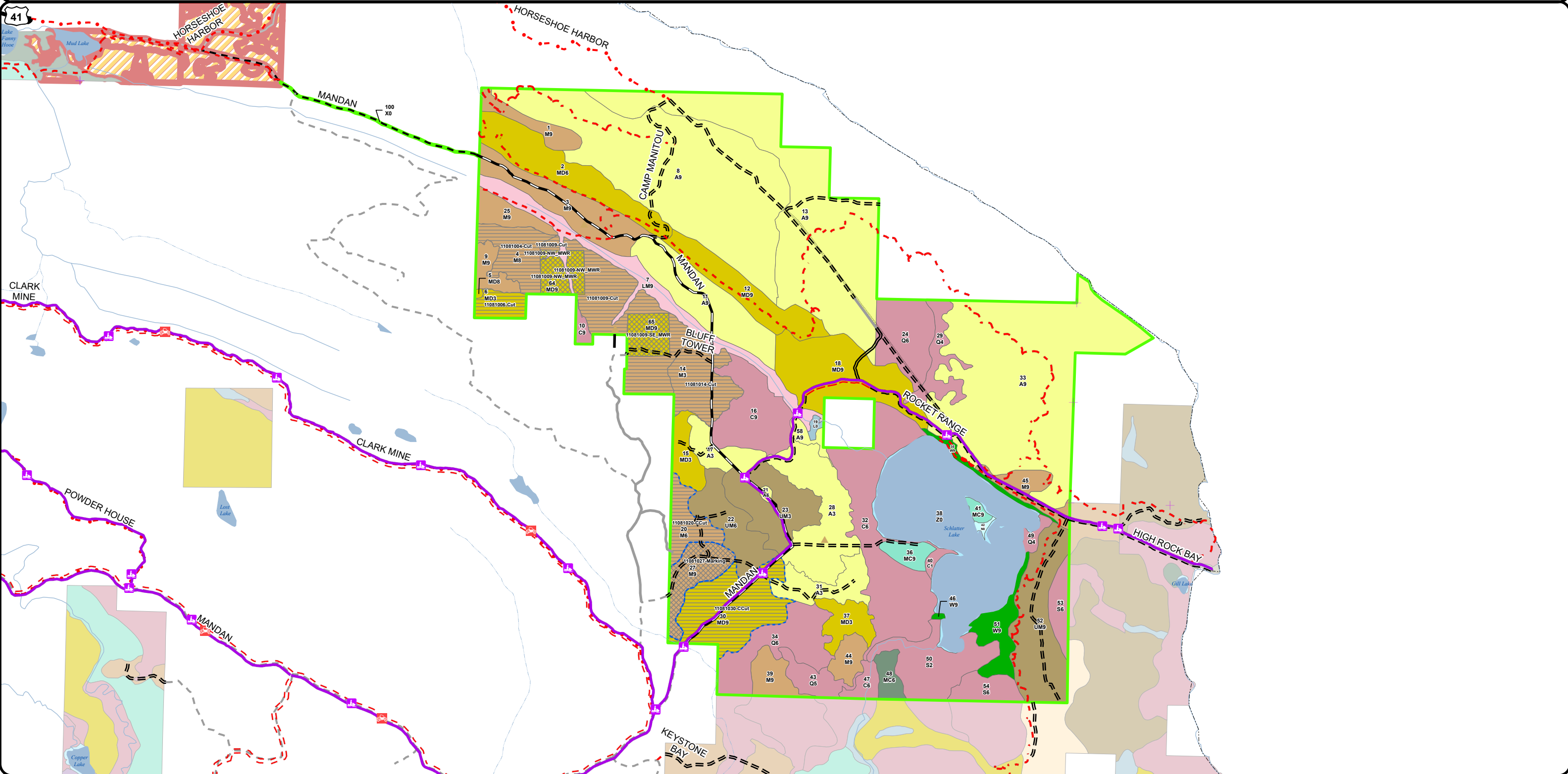
Cover Type & Treatments Map



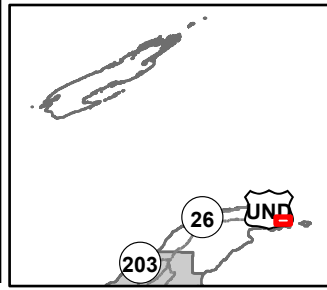
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 YOE: 2026  
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 Examiner: Fred Hansen  
 Map Revised: 04/15/2024  
 Map Phase: Web Post



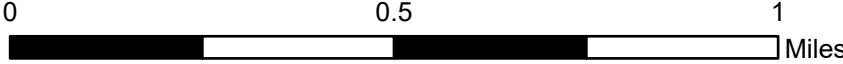
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|---------------------------------|--|-----------------------------------|----------------------------------|-----------------------------------|
| ▲ Berms                         | == DNR - Forest Access Route               | — Island in Lake or River         | ▨ Selection (Group, Single Tree) | ■ 612 - Lowland Coniferous Forest |
| + Remonumented Section Corners  | == Federal / State Highway                 | — Lake/Pond                       | ▨ Clearcut (w/Reserves)          | ■ 613 - Lowland Mixed Forest      |
| 🚘 65" Restricted ORV Route      | == Federal / State / County - Paved Road   | — Perennial River                 | ■ 411 - Northern Hardwood        | ■ 122 - Roads/Parking Lot         |
| 🚙 Snowmobile Trails             | - - - Federal / State - Dirt / Gravel Road | — Shoreline                       | ■ 413 - Aspen Types              | ■ 500 - Water                     |
| - - - Designated Bicycle Trails | - · - · County - Gravel Road               | ■ Lakes and Rivers                | ■ 419 - Mixed Upland Deciduous   | ■ 622 - Lowland Shrub             |
| - - - Designated ORV Routes     | - - - County - Dirt Road (Seasonal)        | — Pipeline                        | ■ 422 - Natural Pines            | ■ 623 - Emergent Wetland          |
| — Designated Snowmobile Trails  | — Private - Paved Road                     | ▭ Compartment Boundary            | ■ 423 - Other Upland Conifers    |                                   |
| == DNR - Primary Forest Road    | - - - Private - Dirt / Gravel Road         | ▭ Counties                        | ■ 429 - Mixed Upland Conifers    |                                   |
| == DNR - Secondary Forest Road  | — Intermittent Stream                      | ▭ Treatments with Site Conditions | ■ 430 - Upland Mixed Forest      |                                   |



Stand Boundary Map



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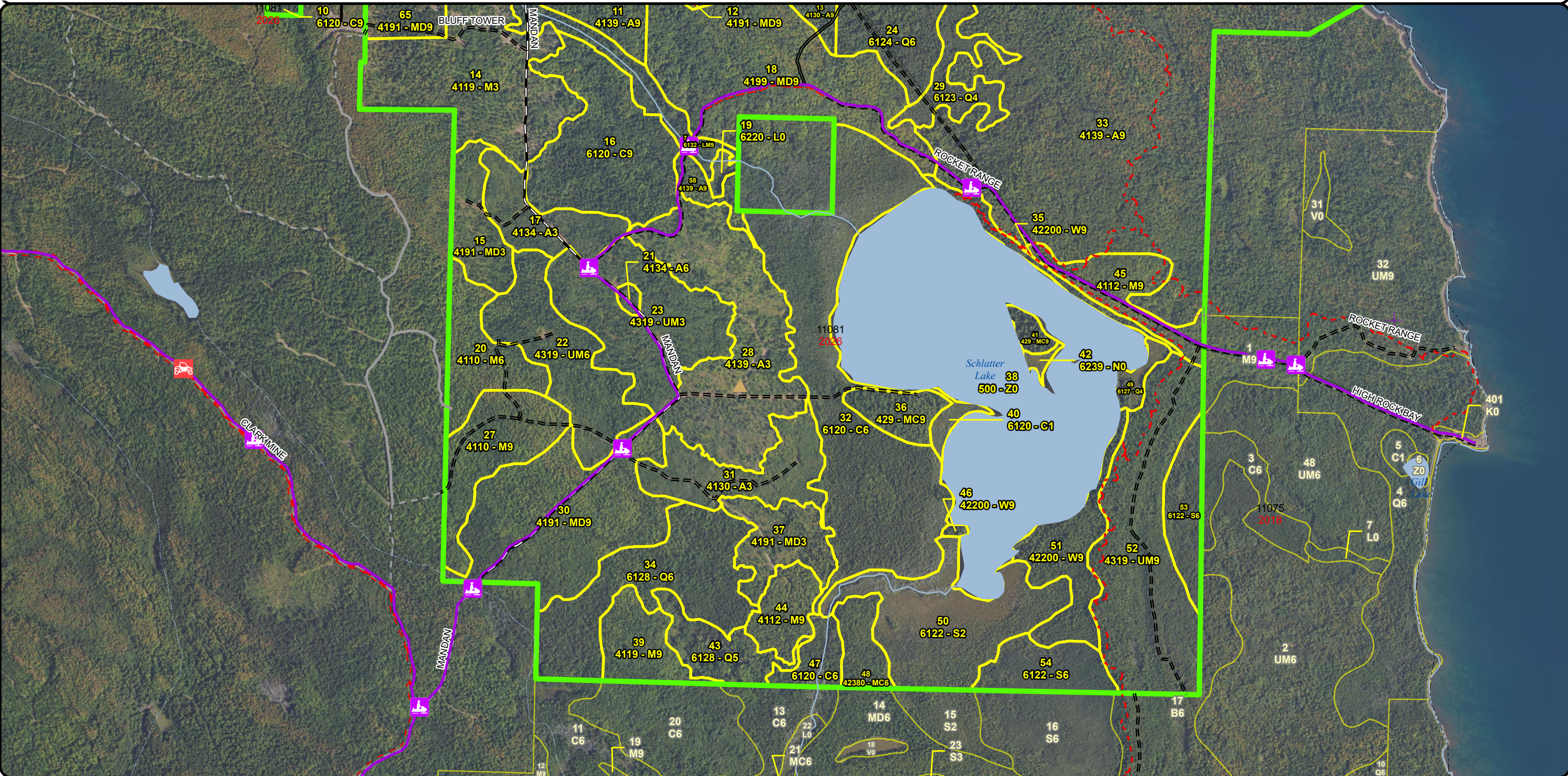
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- County - Gravel Road
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- Private - Paved Road
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- Intermittent Stream
- Island in Lake or River
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- Perennial River
- Shoreline
- Lakes and Rivers
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- Compartment Boundary

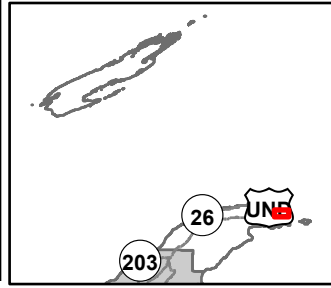
- Counties
- Stand Boundaries

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- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers

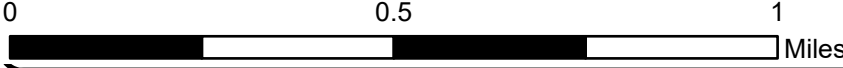
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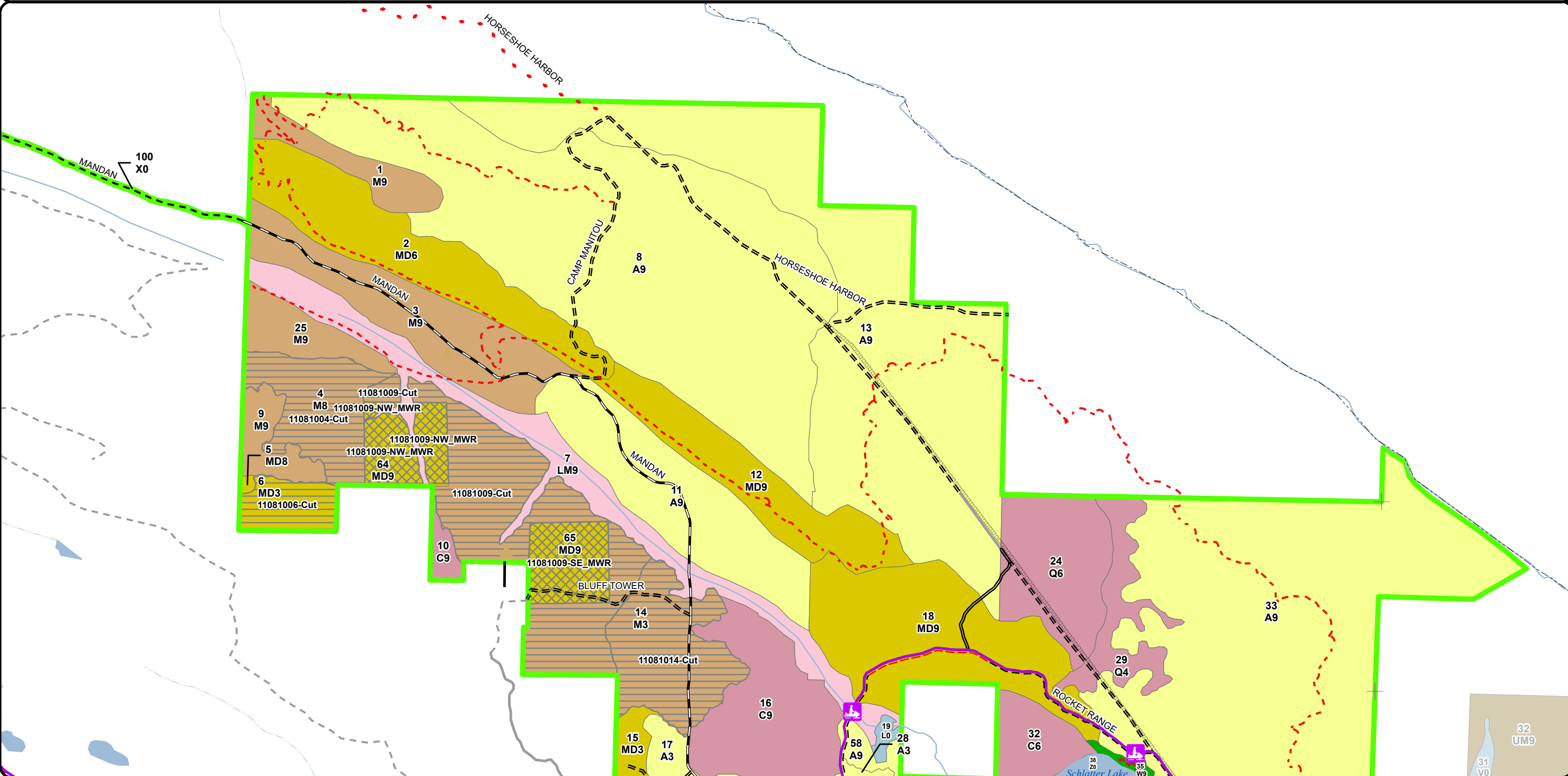
Cover Type & Treatments Map



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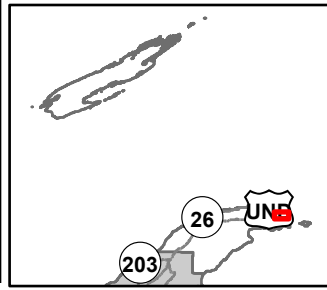


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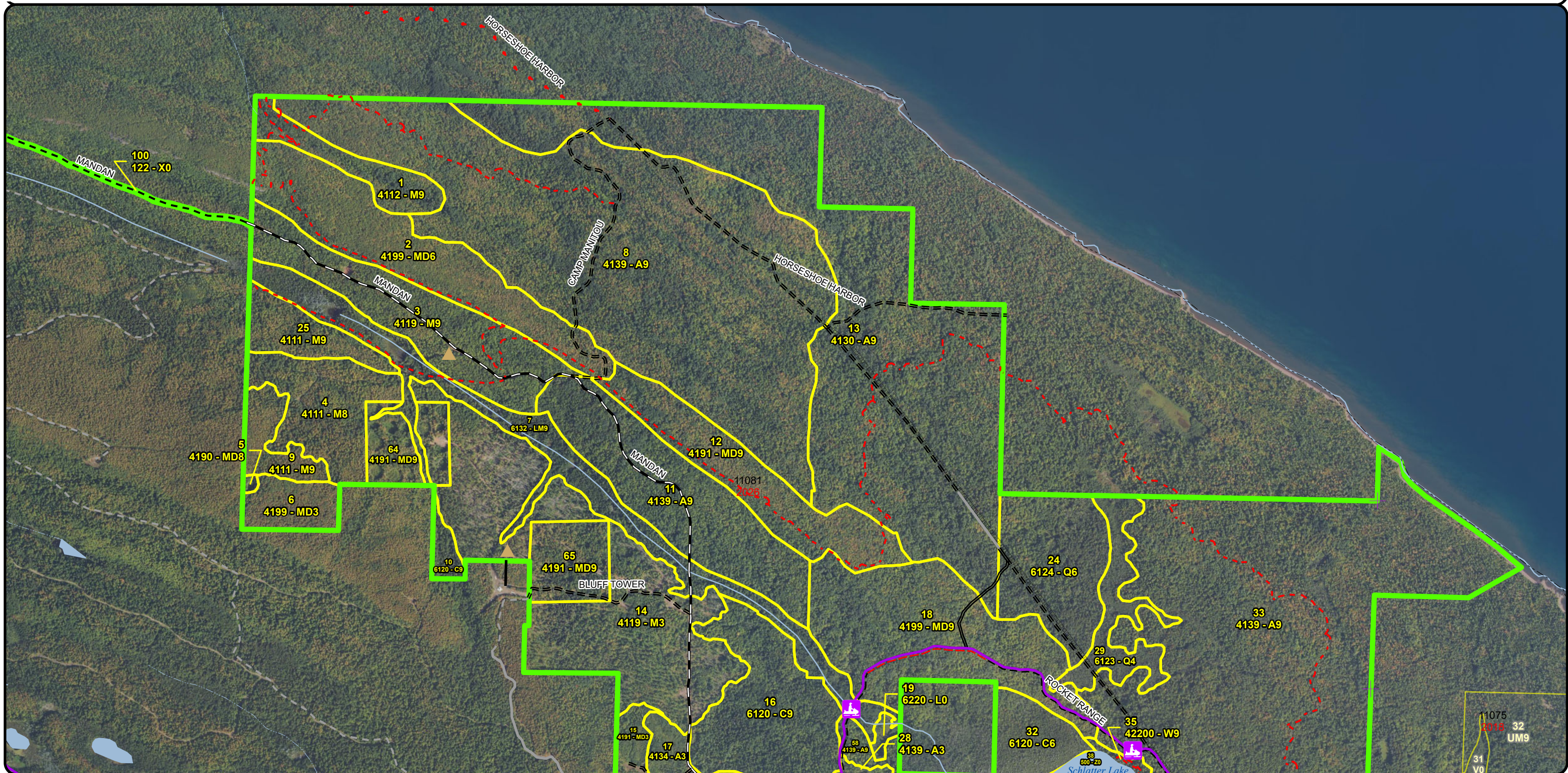
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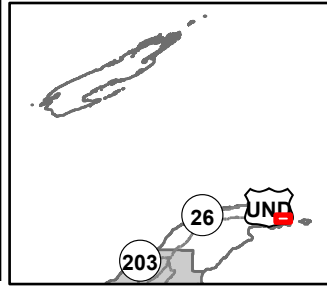
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**Special Conservation Areas & Site Conditions Map**



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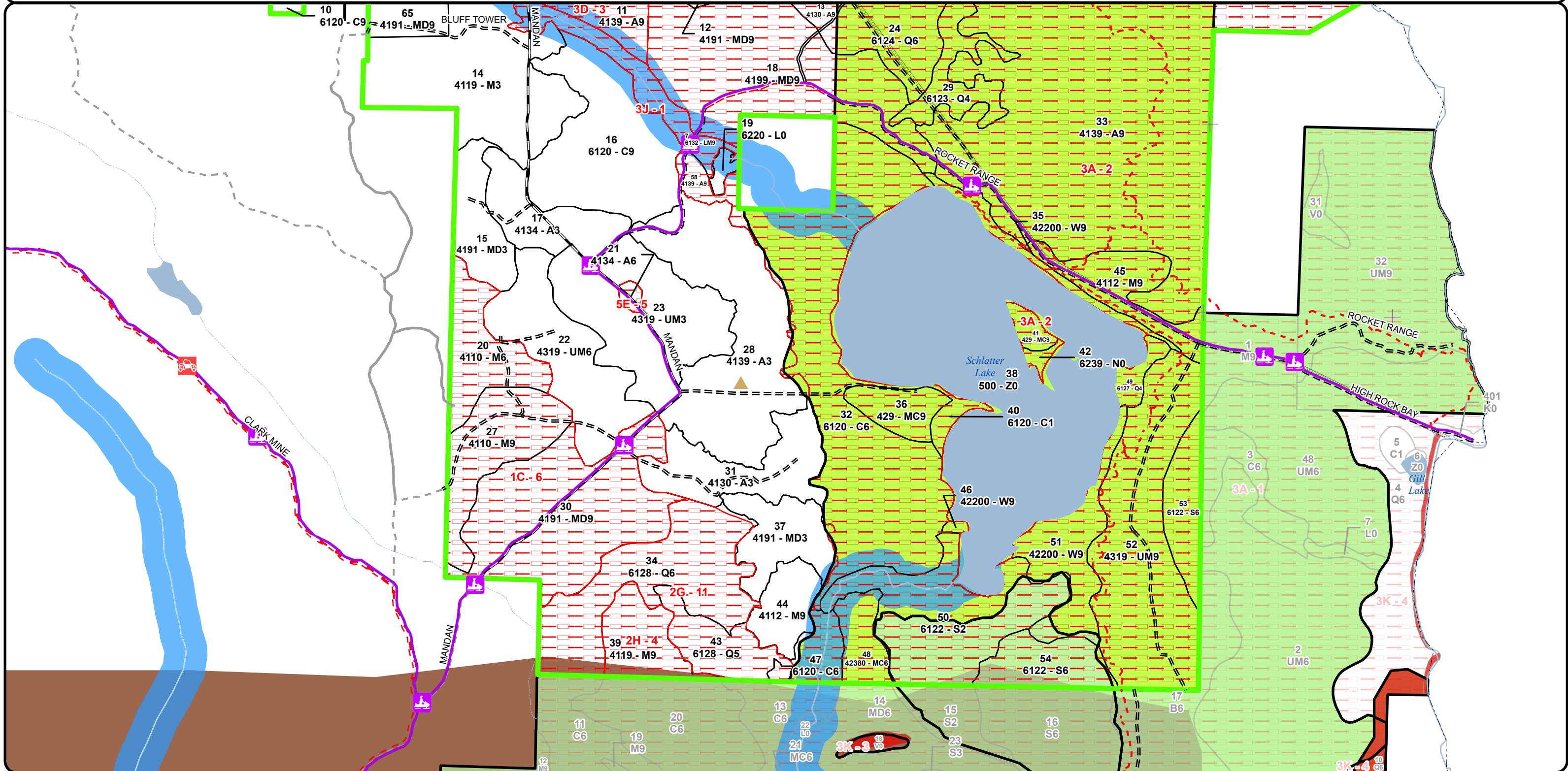
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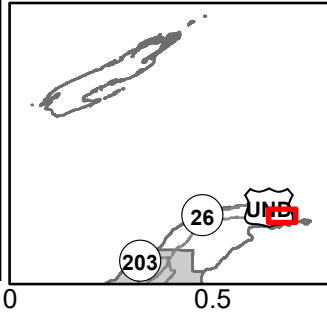
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Counties
- SCA
- Unavailable

- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values

- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Type 1 and Type 2 Old Growth
- Deer Winter Range
- Possible Type 2 Old Growth

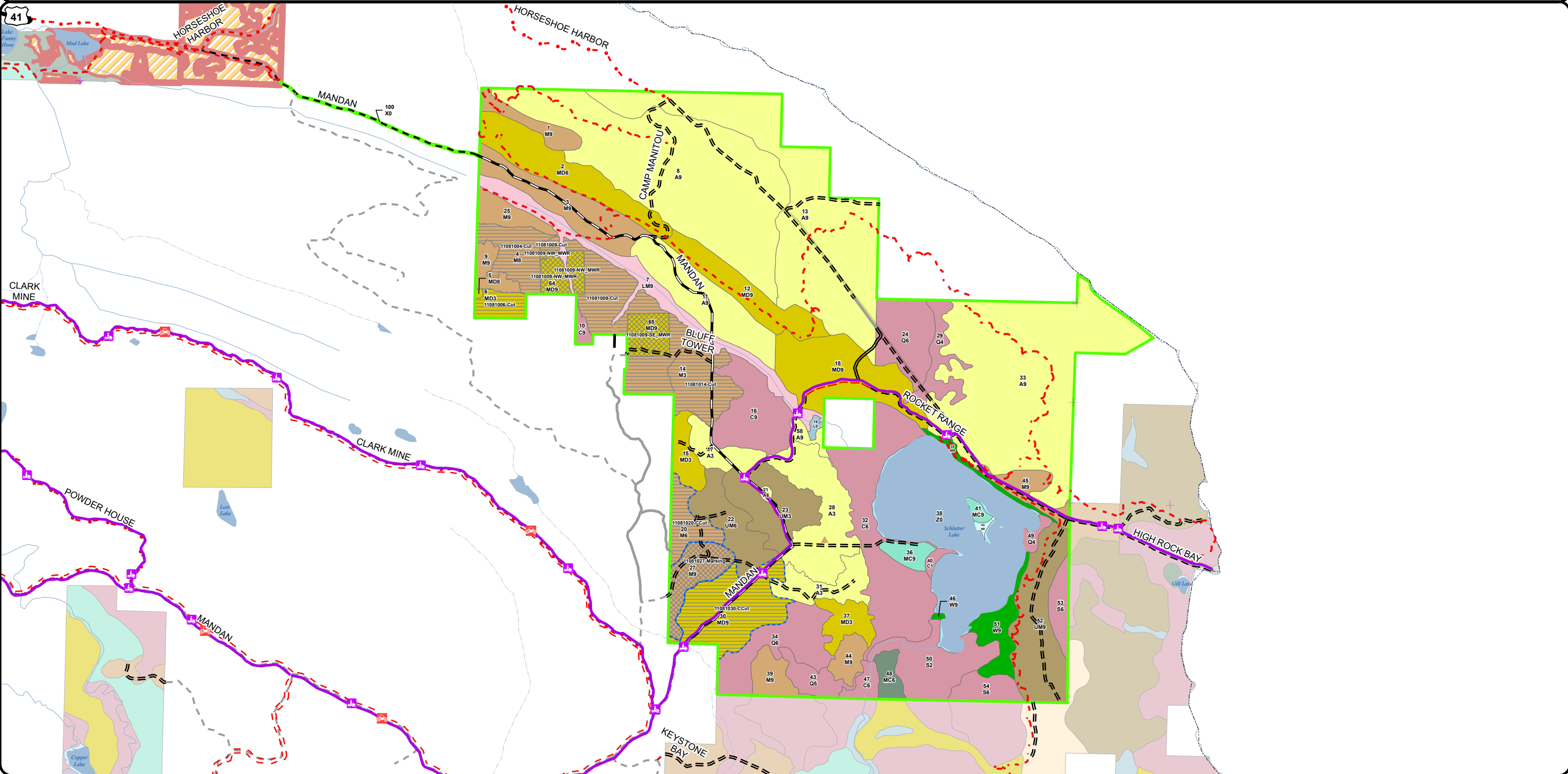


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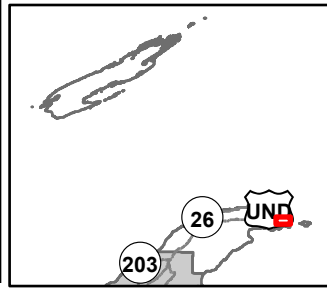


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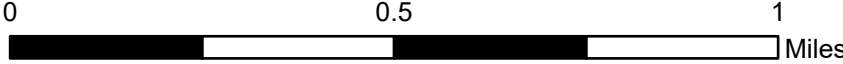
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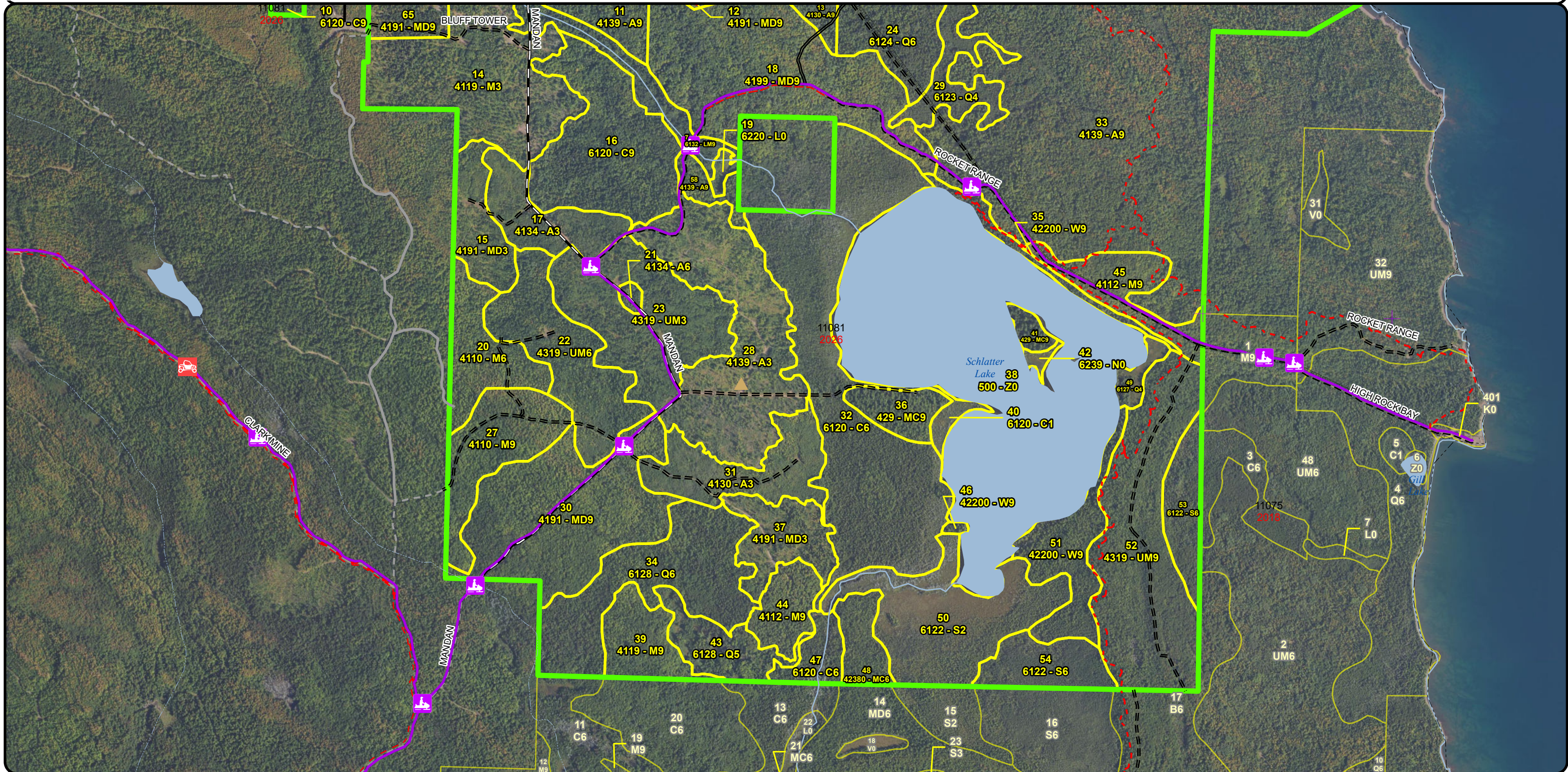
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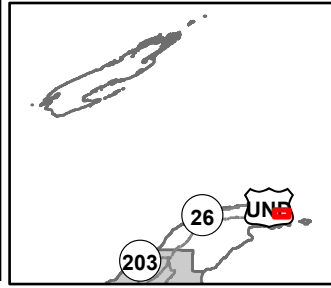
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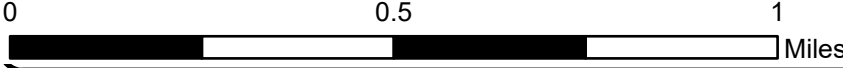
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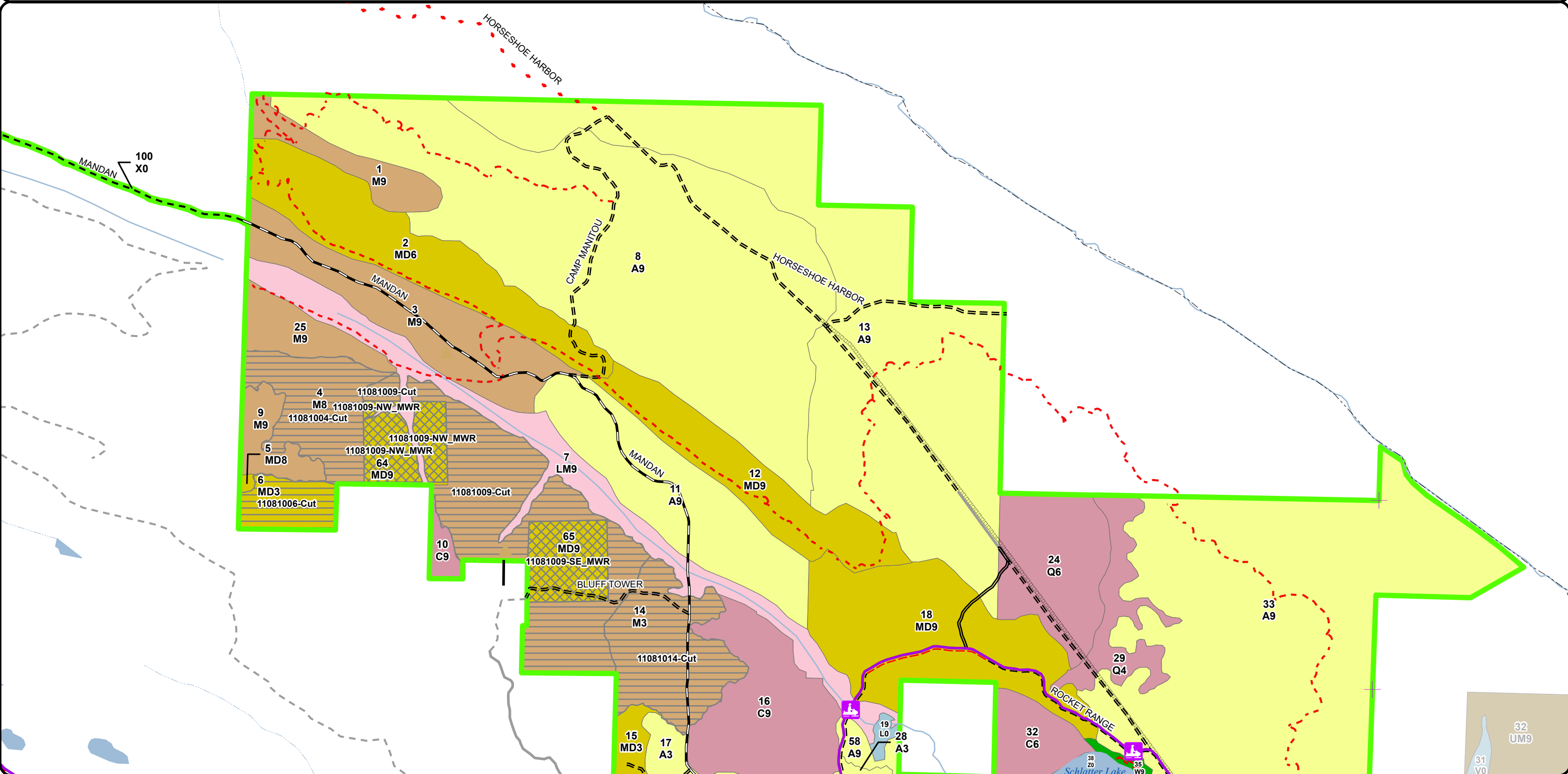
Cover Type & Treatments Map



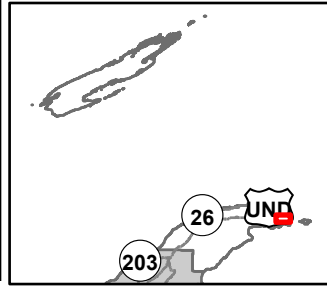
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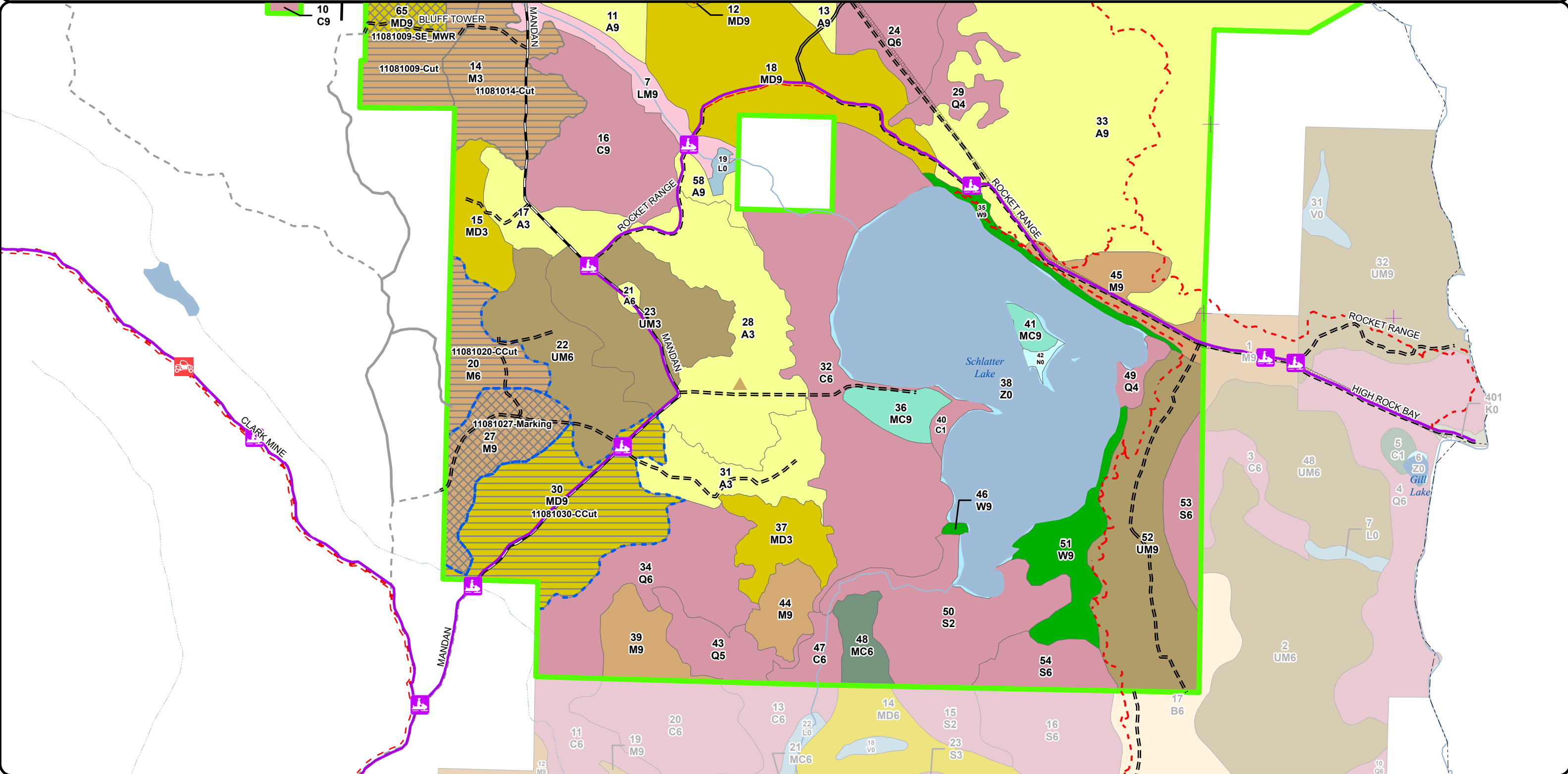
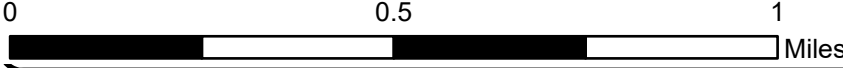
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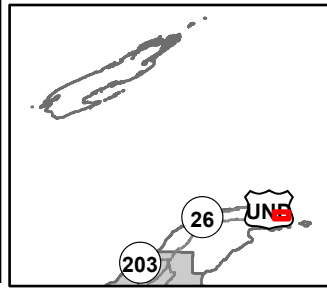
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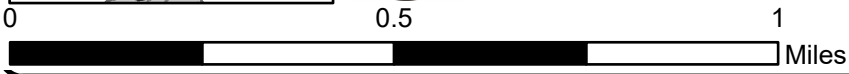
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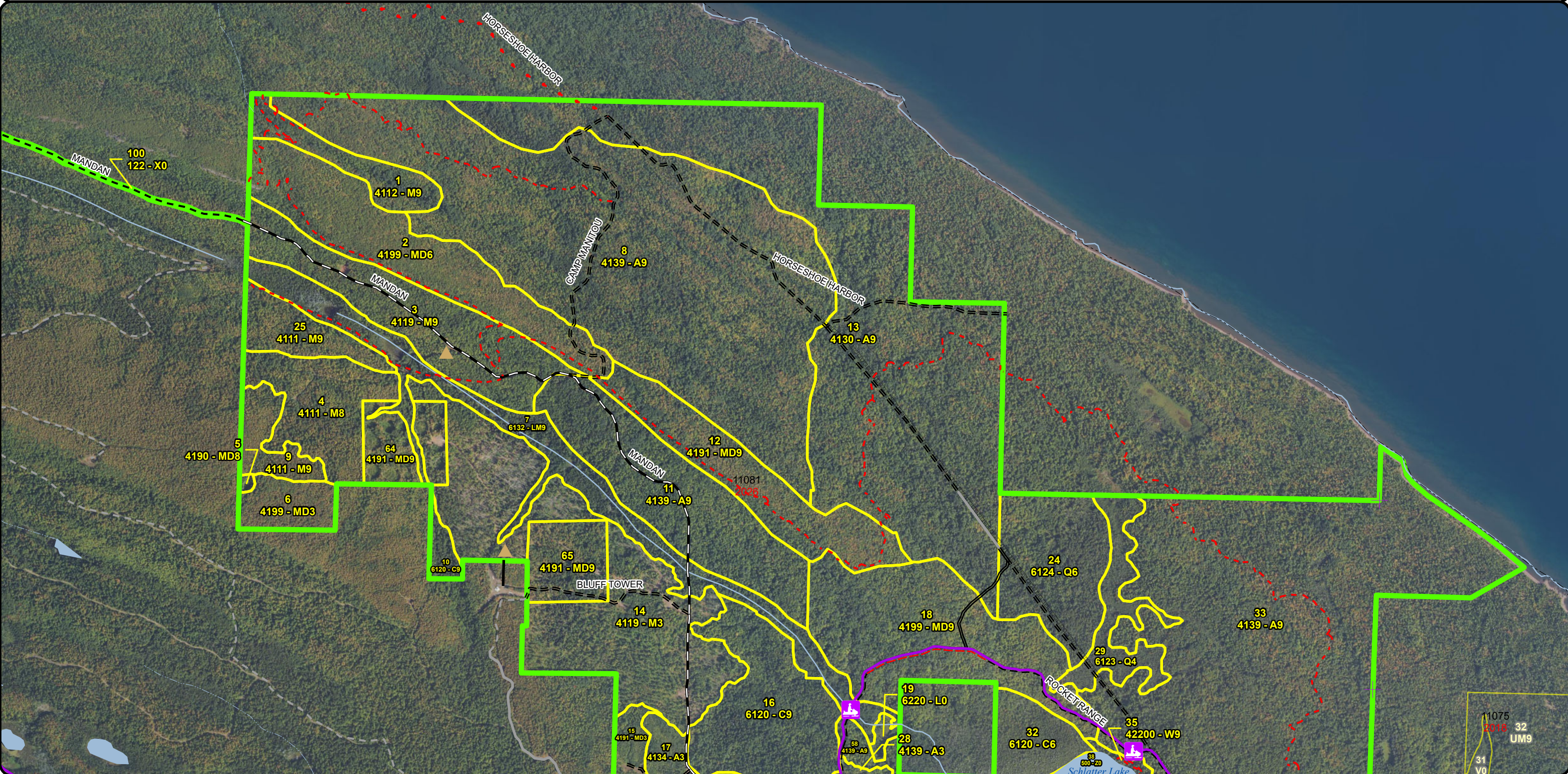
Stand Boundary Map



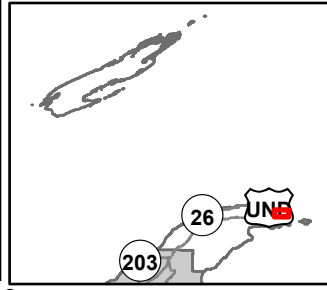
Compartment: 11081  
 T58N R27W, Section 5, 6, 7, 8,  
 9, 16, 17  
 County: Keweenaw  
 Unit: Baraga  
 Mgmt Area: Keweenaw  
 YOE: 2026  
 Acres: 3821.4 GIS Calculated  
 Examiner: Fred Hansen  
 Map Revised: 04/15/2024  
 Map Phase: Web Post



- ▲ Berms
- + Remonumented Section Corners
- 🛵 Snowmobile Trails
- - - Designated Bicycle Trails
- == Designated ORV Routes
- 🛵 Designated Snowmobile Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- === DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- . . . County - Gravel Road
- - - County - Dirt Road (Seasonal)
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- 🌊 Lakes and Rivers
- Pipeline
- 🟩 Compartment Boundary
- ⬜ Counties
- 🟡 Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 500 - Water
- 622 - Lowland Shrub
- 🟩 State Forests



**Special Conservation Areas  
& Site Conditions Map**



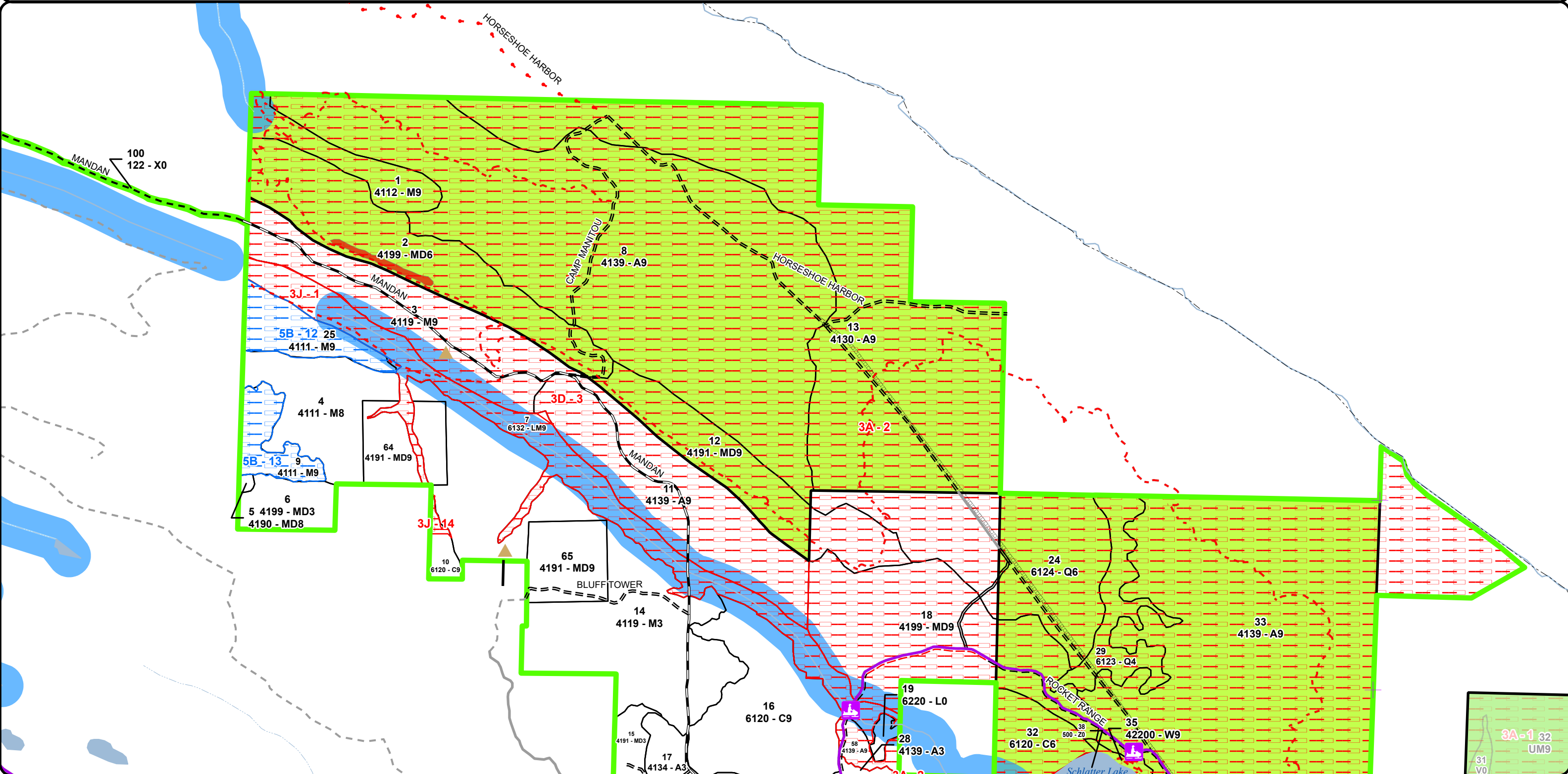
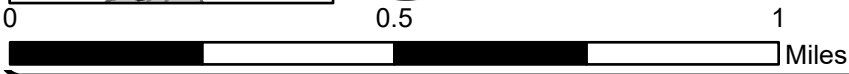
Compartment: 11081  
 T58N R27W, Section 5, 6, 7, 8,  
 9, 16, 17  
 County: Keweenaw  
 Unit: Baraga  
 Mgmt Area: Keweenaw  
 YOE: 2026  
 Acres: 3821.4 GIS Calculated  
 Examiner: Fred Hansen  
 Map Revised: 04/15/2024  
 Map Phase: Web Post

- Berms
- Remonumented Section Corners
- Snowmobile Trails
- Designated Bicycle Trails
- Designated ORV Routes
- Designated Snowmobile Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route

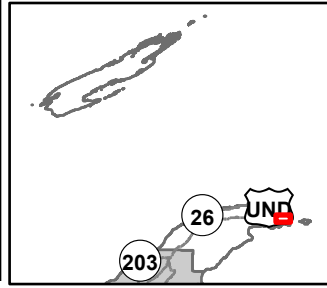
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline

- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Counties
- SCA
- Available w/ Constraints
- Unavailable

- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Type 1 and Type 2 Old Growth
- Trail - Trail Corridor
- Possible Type 2 Old Growth



**Special Conservation Areas & Site Conditions Map**



Compartment: 11081  
 T58N R27W, Section 5, 6, 7, 8,  
 9, 16, 17  
 County: Keweenaw  
 Unit: Baraga  
 Mgmt Area: Keweenaw  
 YOE: 2026  
 Acres: 3821.4 GIS Calculated  
 Examiner: Fred Hansen  
 Map Revised: 04/15/2024  
 Map Phase: Web Post

0 0.5 1 Miles

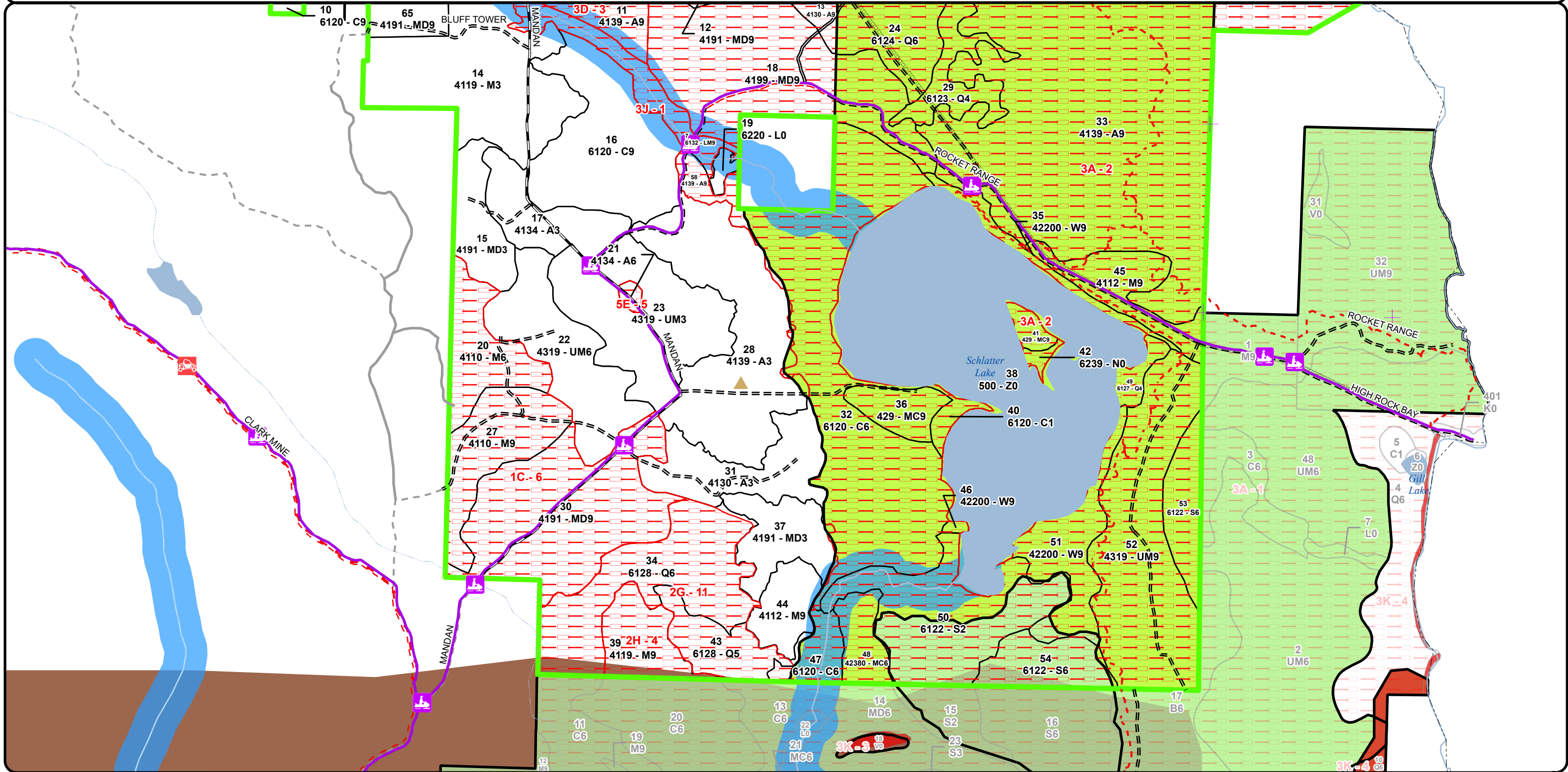
- Berms
- Remonumented Section Corners
- 65" Restricted ORV Route
- Snowmobile Trails
- Designated Bicycle Trails
- Designated ORV Routes
- Designated Snowmobile Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road

- 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
- Island in Lake or River
- Lake/Pond
- Perennial River
- Shoreline

- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Counties
- SCA
- Unavailable

- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values

- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Type 1 and Type 2 Old Growth
- Deer Winter Range
- Possible Type 2 Old Growth





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
Aspen	0	105	0	77	0	0	0	0	0	446	806	0	0	0	0	0	0	0	1434
Cedar	0	0	0	0	0	0	0	20	0	163	0	0	0	0	0	0	0	87	270
Lowland Conifers	0	0	0	0	0	0	77	0	59	0	8	0	0	0	0	0	0	66	210
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90	90
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Spruce/Fir	0	0	0	0	0	0	0	78	23	27	0	0	0	0	0	0	0	0	128
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	21	26	0	0	0	0	0	0	95	68	0	0	0	0	0	0	315	525
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	98	0	0	0	0	0	0	435	533
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	34	40
Upland Mixed Forest	0	0	79	60	0	0	0	0	0	0	0	0	0	0	0	0	0	111	250
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	280	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	280
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	50	51
<b>Total</b>	<b>290</b>	<b>126</b>	<b>105</b>	<b>137</b>	<b>0</b>	<b>0</b>	<b>77</b>	<b>98</b>	<b>82</b>	<b>731</b>	<b>980</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>1188</b>	<b>3820</b>



## Report 2 – Treatment Summary

Baraga Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 81

Total Compartment Acres: 3,821

Commercial Harvest - 295  
 Harvests with Site Condition - 186  
 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
Mixed Upland Deciduous	127	55	0	0	0	0	0	0	0	182
Northern Hardwood	255	44	0	0	0	0	0	0	0	299
<b>Total</b>	<b>382</b>	<b>99</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>481</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	481	0	0	0	0	0	0	0	0	481
Next Step	0	29	0	0	0	29	481	0	0	538
<b>Total</b>	<b>481</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>29</b>	<b>481</b>	<b>0</b>	<b>0</b>	<b>1019</b>



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

**Proposed Treatments:**

<b>20</b>	<b>11081020-CCut</b>	35.2	4110 - Sugar Maple Association	Poletimber Well	91	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all species down to 4.6 inches DBH except hemlock, red pine, white pine, cedar and red oak. Also reserve all trees that are 22" dbh and larger. Exclude paper birch along boundary line for a seed source if present.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stands over story species prior to harvest.</p> <p><u>Other Comment:</u> Retention for this stand will be greater than 3% and will consist of reserve tree species.</p> <p><u>Site Condition</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>27</b>	<b>11081027-Marking</b>	44.2	4110 - Sugar Maple Association	Sawtimber Well	98	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Selectively thin hardwoods to 70-90 sqft of BA. Favor oak, hemlock, white pine and cedar where present. Oak should be released on 3 sides to an average BA of 60 sqft. Where 30 sqft or more of hemlock occurs thin to no less than 100 sqft of BA. Follow all guidelines set forth in "The Complete Marker".</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stands over story species prior to harvest.</p> <p><u>Other Comment:</u> Retention for this stand will be greater than 3% and will consist of tree species of the dominant cover type and reserve tree species.</p> <p><u>Site Condition</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
<b>30</b>	<b>11081030-CCut</b>	106.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	98	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all species down to 4.6 inches DBH except hemlock, red pine, white pine, cedar and red oak. Also reserve all trees that are 22" dbh and larger. Exclude paper birch along boundary line for a seed source if present.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the original stands over story species prior to harvest.</p> <p><u>Other Comment:</u> Retention for this stand will be greater than 3% and will consist of reserve tree species.</p> <p><u>Site Condition</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											

**Approved Treatments:**

<b>4</b>	<b>11081004-Cut</b>	49.1	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	96	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all species down to 4.6 inches DBH except cedar, red oak and white pine. Also reserve hemlock if it is present. Retention for this stand will be greater than 3% and will consist of reserve tree species. Also, reserve hemlock if present. Operation shall not disturb the snowmobile trail from Dec 1st - March 31st.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any combination of the over story species.</p>											



Standard

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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Other Comment: Stand was cut heavy by GMO before we acquired it. Residual maple is either dead or dying. Adjacent stand is prescribed. Prescribe stand and possibly negotiate with the contractor who wins the bid on the adjacent sale to determine if it is economically feasible to harvest. Retention for this stand will be greater than 3% and will consist of reserve tree species. Old next step comments: Regeneration survey as per work instructions.

Site Condition

Proposed Start Date: 10/1 /2015

<b>6</b>	<b>11081006-Cut</b>	20.9	4199 - Other Mixed Upland Deciduous	Sapling Well	1	Immature	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Harvest all species down to 4.6 inches DBH except red oak, cedar and white pine. Also, reserve hemlock if present. Operation shall not disturb the snowmobile trail from Dec 1st - March 31st.

Next Step: Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Any combination of the over story species.

Other Comment: Sugar Maple has top dieback throughout stand, Red Oak is healthy. Clearcut reserving Red Oak and the few Cedar and White Pine that are in the stand. Retention for this stand will be greater than 3% and will consist of reserve tree species. Old next step comments: Regeneration survey as per work instructions.

Site Condition

Proposed Start Date: 10/1 /2015

<b>14</b>	<b>11081009-Cut</b>	106.3	4119 - Mixed Northern Hardwoods	Sapling Well	2	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Specs: Harvest all species down to 4.6 inches DBH except cedar, red oak and white pine. Also reserve hemlock if it is present. Retention for this stand will be greater than 3% and will consist of reserve tree species. Retain some large aspen and white spruce along Union Creek corridor. Also, reserve hemlock if present. Operation shall not disturb the snowmobile trail from Dec 1st - March 31st.

Next Step: Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Any combination of the over story species.

Other Comment: Maple in the stand has top dieback Old next step comments: Regeneration survey as per work instructions.

Site Condition

Proposed Start Date: 10/1 /2015

<b>64</b>	<b>11081009-NW_MWR</b>	26.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	96	1-50	Harvest	Group Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Specs: ) Large group selection and patch cuts. Harvest openings will range from 0.25 -1.0 acre in size and comprise 30% of the stand. Leave all tops > 8".

Next Step: Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Any combination of the over story species.

Other Comment: Maple in the stand has top dieback Old next step comments: Regeneration survey as per work instructions.

Site Condition

Proposed Start Date: 10/1 /2015



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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
<b>65 11081009-SE_MWR</b>	28.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	96	51-80	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Single tree and small group selection. Regeneration gaps will range from single tree to 0.25 acres in size with a target residual basal area of 80 sq ft/ acre. Herbicide application to advance regeneration and non-tree competing vegetation (e.g. sedge, Rubus) Scarifying the forest floor</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Pesticide, Skidder - Site Prep; SitePrep, Scarification</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A diverse mix of northern hardwood species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Maple in the stand has top dieback Old next step comments: Regeneration survey as per work instructions.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</p>										
<b>14 11081014-Cut</b>	64.2	4119 - Mixed Northern Hardwoods	Sapling Well	2	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all species down to 4.6 inches DBH except cedar, red oak and white pine. Also reserve hemlock if it is present. Retention for this stand will be greater than 3% and will consist of reserve tree species. Retain some large aspen and white spruce along Union Creek corridor. Also, reserve hemlock if present. Operation shall not disturb the snowmobile trail from Dec 1st - March 31st.</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> Any combination of the over story species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Stand was cut heavy by GMO before we acquired it. Residual maple is either dead or dying. Adjacent stand is prescribed. Prescribe stand and possibly negotiate with the contractor who wins the bid on the adjacent sale to determine if it is economically feasible to harvest. Old next step comments: Regeneration survey as per work instructions.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</p>										

**Total Treatment Acres Proposed: 480.8**

## Report 4 – Site Conditions

Baraga Mgt. Unit  
Fred Hansen : Examiner

Compartment: 81  
Year of Entry: 2026

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
1435	183	0	1252
270	86	0	184
210	2	0	207
90	1	0	89
3	3	0	0
127	0	0	127
2	0	0	2
526	135	0	391
533	285	0	248
34	0	0	34
250	139	0	111
4	4	0	0
280	280	0	0
51	0	0	51
3,815	1,118	0	2,697
	29%	0%	71%

### Dominant Site Conditions

	Dominant Site Conditions											
	5B	1C	2G	2H	3A	3D	3J	5E				
Aspen					1,140	99	10	3				
Cedar			2		181		1					
Lowland Conifers			101	0	106							
Lowland Mixed Forest	0						89					
Lowland Shrub							0					
Lowland Spruce/Fir					127							
Marsh					2							
Mixed Upland Deciduous	0	106	0		285							
Northern Hardwood		79	0	27	57	84	0					
Upland Conifers					34							
Upland Mixed Forest					111							
Urban												
Water												
White Pine					51							
Total Forested Acres	0	185	103	27	2,096	184	100	3				
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	3J: Water quality / BMPs (stream, river, or lake)	99	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3A: Conservation Values incompatible with harvest at this time	2,102	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Possible Type 2 Old Growth							

## Report 4 – Site Conditions

Baraga Mgt. Unit  
Fred Hansen : Examiner

Compartment: 81  
Year of Entry: 2026

3	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	184	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	27	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	(Inactive)3I: Historical / archeological (add locked comments)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	185	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area is enrolled in the state's Wolverine-Copper Carbon Credit program. Need to confirm that management is in line with model before implementing the treatment.							
11	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	103	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

**Baraga Mgt. Unit**  
**Fred Hansen : Examiner**

**Compartment: 81**  
**Year of Entry: 2026**

13	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



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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**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	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
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
1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	26.8	104	81-110	N/A	2014: Steep terrain. Tough access.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		15	Log	16		Balsam Fir	
Yellow Birch		5	Log	16		Low	
White Spruce		3	Pole/Log	10		Variable	
Sugar Maple		70	Log	16	104	Sapling	
Red Oak		5	Log	16		Sugar Maple	
Northern White Cedar		2	Log	12		High	
						Variable	
						Sapling	
2	4199 - Other Mixed Upland Deciduous	Poletimber Well	94.8	81	51-80	N/A	2014: Ridgetop Oak, 2 sticks tall. No signs of past management. Consider type 2 old growth.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Sugar Maple		23	Sapling/Pole	5		Ironwood	
Red Oak		10	Sapling	4		High	
Quaking Aspen		5	Pole	8		Variable	
Northern White Cedar		2	Pole	6		Sapling	
White Pine		5	Log	12		Paper Birch	
Ironwood		5	Sapling	4		Low	
Red Oak		50	Log	12	81	Variable	
						Sapling	
						Sugar Maple	
						High	
						Variable	
						Sapling	
						Red Oak	
						Medium	
						Variable	
						Sapling	
3	4119 - Mixed Northern Hardwoods	Sawtimber Well	84.3	87	81-110	N/A	2014: Stand was highgraded before it was acquired. The Mandan Road travels the entire length of the stand and receives heavy recreational use in the summer months. 2024: Quality gets better to the east with better operability.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Spruce		2	Pole/Log	10		Ironwood	
Balsam Fir		2	Pole	8		Medium	
Paper Birch		5	Pole/Log/Sap	6		Variable	
Yellow Birch		5	Log	12		Sapling	
Quaking Aspen		5	Log/Pole	8		Sugar Maple	
Sugar Maple		50	Log	12	87	High	
Northern White Cedar		3	Pole/Log	10		Variable	
Red Oak		10	Pole/Log	10		Sapling	
Red Maple		15	Log/Pole	10		Yellow Birch	
White Pine		3	Log	16		Low	
						Variable	
						Sapling	
						Red Oak	
						Medium	
						Variable	
						Sapling	
4	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	52.3	96	1-50	N/A	2014: Stand was cut heavy by GMO before we acquired it. Residual maple is either dead or dying. 2024: Stand is currently being harvested. Should be complete in summer 2024. Soggy Bottom Mix MWR, unit 1.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		25	Log	14		Sugar Maple	
Red Oak		10	Log	16		Full	
Sugar Maple		65	Log	14	96	10 - 20 feet	
						Sapling	
						Red Maple	
						Full	
						10 - 20 feet	
						Sapling	
						Quaking Aspen	
						High	
						10 - 20 feet	
						Sapling	
						Balsam Fir	
						Low	
						>20 feet	
						Sapling	
						Ironwood	
						Low	
						10 - 20 feet	
						Sapling	
						Paper Birch	
						Low	
						10 - 20 feet	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**5** 4190 - Mixed Upland Deciduous with Cedar Sawtimber Medium 1.1 91 1-50 N/A Small pocket bog surrounded by cedar.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log	14	
Yellow Birch	20	Log	14	
Northern White Cedar	40	Log	14	91
Red Oak	20	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Medium	Variable	Sapling
Red Maple	Medium	Variable	Sapling

**6** 4199 - Other Mixed Upland Deciduous Sapling Well 20.9 1 Immature N/A 2024: Cut in summer of 2023. Soggy Bottom Mix, unit 2.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	59	Sapling/Pole	2	1
Red Oak	25	Log	12	
White Pine	1	Log	16	99
Balsam Fir	10	Sapling	3	
Quaking Aspen	5	Sapling	1	

**7** 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 90.0 91 51-80 N/A 2014: Stream corridor with steep slopes transitioning from the upland. Pockets of L0 where there are old beaver dams. 3J-BMP

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	15	Pole/Log	10	
Quaking Aspen	5	Pole/Log	10	
Red Oak	15	Log	12	
Balsam Fir	10	Pole	8	
White Pine	5	XLog	18	
Paper Birch	20	Pole	8	
Northern White Cedar	25	Pole/Log	10	91
Red Maple	5	Pole/Log	10	

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

**8** 4139 - Aspen, Mixed Deciduous Sawtimber Well 394.8 91 81-110 N/A 2014: Some wet drainages within stand. No signs of past management. Consider nominating for Type 2 old growth. Stand has uneven aged characteristics due to the prevailing wind off of Lake Superior creating pockets of wind throw which regenerate younger early successional species.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	8	
Quaking Aspen	50	Log	12	91
Balsam Fir	2	Pole	8	
White Spruce	5	Pole/Log	10	
Sugar Maple	10	Log	12	
White Pine	3	XLog/Log	20	130
Northern White Cedar	5	Log	12	
Red Maple	10	Log	12	
Red Oak	10	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
Red Oak	Low	Variable	Sapling
Sugar Maple	Full	Variable	Sapling
Red Maple	High	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>9</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	19.5	96	1-50	N/A	2014: Stand was cut heavy by GMO before we acquired it. Residual maple is either dead or dying. Adjacent stand is prescribed. Prescribe stand and possibly negotiate with the contractor who wins the bid on the adjacent sale to determine if it is economically feasible to harvest. 2024: Stand was part of stand 4.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		25	Log	14		Paper Birch		Low	10 - 20 feet	Sapling	
Sugar Maple		60	Log	14	96	Red Maple		Full	10 - 20 feet	Sapling	
Northern White Cedar		5	Pole/Log	8		Quaking Aspen		High	10 - 20 feet	Sapling	
Red Oak		10	Log	16		Balsam Fir		Low	>20 feet	Sapling	
						Sugar Maple		Full	10 - 20 feet	Sapling	
						Ironwood		Low	10 - 20 feet	Sapling	

<b>10</b>	6120 - Lowland Cedar	Sawtimber Well	7.1	99	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		50	Log	12	99	Red Maple		Medium	Variable	Sapling
Yellow Birch		5	Log	12		Balsam Fir		High	Variable	Sapling
White Spruce		30	Log	12		Northern White Cedar		High	Variable	Pole
Balsam Fir		5	Pole	8						
Red Maple		10	Pole/Log	10						

<b>11</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	99.5	81	81-110	N/A	2014: The Mandan Road travels the entire length of the stand and receives a high volume of recreational traffic in the summer months. Possibly harvest next rotation with adjacent hardwood stand. 2024: There may be some areas of inoperability due to terrain if harvested.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Oak		5	Log	16		Red Maple		Medium	Variable	Sapling	
Yellow Birch		2	Log	16		Sugar Maple		High	Variable	Sapling	
Northern White Cedar		5	Log	12		Balsam Fir		Full	Variable	Sapling	
White Pine		5	XLog	20							
Quaking Aspen		45	Log	12	81						
Red Maple		10	Log	12							
Paper Birch		3	Pole	6							
Sugar Maple		25	Log	12							

<b>12</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	68.3	91	81-110	N/A	2014: No signs of past management. Consider nominating for Type 2 old growth. Stand has uneven aged characteristics due to the prevailing wind off of Lake Superior creating pockets of wind throw which regenerate younger early successional species. Birch is dying. 2024: SE 20 acres was acquired from Anderson Saw Mill Inc. in 2023. Ridge top.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		10	Log	12		Ironwood		High	Variable	Sapling	
Balsam Fir		5	Pole	8		Sugar Maple		Medium	Variable	Pole	
Northern White Cedar		5	Log	14		Balsam Fir		High	Variable	Sapling	
Quaking Aspen		30	Log	16	91						
Red Oak		10	Log	18							
White Spruce		5	Pole/Log	12							
Sugar Maple		15	Log	16							
White Pine		5	XLog	20							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>13</b>	4130 - Aspen	Sawtimber Well	334.3	81	81-110	N/A	2014: Some wet drainages within stand. No signs of past management. Consider nominating for Type 2 old growth. Stand has uneven aged characteristics due to the prevailing wind off of Lake Superior creating pockets of windthrow which regenerate younger early successional species. 2024: S SE 46 acres was acquired from Anderson Saw Mill Inc. in 2023.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Spruce		5	Pole/Log	10		Northern White Cedar	
White Pine		5	XLog	20		Red Oak	
Red Oak		5	Log	16		Red Maple	
Quaking Aspen		63	Log	14	81	Balsam Fir	
Balsam Fir		2	Pole	8			
Paper Birch		5	Pole	8			
Red Maple		10	Log	10			
Northern White Cedar		5	Log	12			

<b>14</b>	4119 - Mixed Northern Hardwoods	Sapling Well	166.9	2	1-50	N/A	2014: Stand was cut heavy by GMO before we acquired it. Residual maple is either dead or dying. Adjacent stand is prescribed. Prescribe stand and possibly negotiate with the contractor who wins the bid on the adjacent sale to determine if it is economically feasible to harvest. A lot of advanced regeneration present. 2024: Stand was cut in summer of 2021 and 2022. Soggy Bottom Mix, units 4,6-8.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		5	Log	12		Sugar Maple	
Paper Birch		5	Sapling/Pole	3		Paper Birch	
White Pine		2	XLog	18		Red Maple	
Red Maple		10	Sapling	2		Quaking Aspen	
Quaking Aspen		3	Sapling	1			
White Spruce		10	Sapling	1			
Sugar Maple		62	Sapling	2	2		
Northern White Cedar		3	Log	12			

<b>15</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	26.4	17	Immature	N/A	Cut in 2007 as part of "Tears Aspen" 11-017-06-01, unit 3.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Oak		5	Pole/Log	10			
Quaking Aspen		20	Sapling	1			
Red Maple		45	Sapling	1	17		
Balsam Fir		15	Sapling	2			
White Pine		5	Log	16			
Northern White Cedar		10	Pole	8			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>16</b>	6120 - Lowland Cedar	Sawtimber Well	80.0	111	111-140	N/A	2014: GMO attempted some cutting but left because it was too wet. Some aspen is manageable on the west side of the stand next to the Mandan Road. High Rock Bay Road borders the stand. Wet soils.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole	8	
Paper Birch	5	Pole/Log	10	
Red Maple	3	Pole/Log	10	
Quaking Aspen	20	Log	12	
Northern White Cedar	50	Log	16	111
Yellow Birch	2	Pole/Log	10	
White Spruce	10	Pole/Log	10	
Sugar Maple	2	Pole	8	
White Pine	3	XLog	20	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	Variable	Pole
Balsam Fir	High	Variable	Sapling
Red Maple	High	Variable	Sapling

<b>17</b>	4134 - Aspen, Spruce/Fir	Sapling Well	32.7	26	Immature	N/A	2014: Clearcut by GMO in 1998.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Sapling	2	26
Balsam Fir	20	Sapling	4	
Red Oak	5	Pole/Log	10	
Northern White Cedar	10	Pole	8	
White Pine	5	XLog/Log	18	
Red Maple	10	Sapling/Pole	4	

<b>18</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	121.8	84	51-80	N/A	2014: No Signs of past management - consider for Type 2 old growth. High Rock Bay road travels through the stand and receives high recreational traffic in the summer months. 2024: W 88 acres was acquired from Anderson Saw Mill Inc. in 2023
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	35	Log	12	84
White Pine	5	Log	16	
Red Maple	15	Log	12	
Black Ash	2	Pole	6	
Quaking Aspen	15	Log	10	
White Spruce	3	Pole	8	
Paper Birch	15	Pole	8	
Northern White Cedar	5	Log	12	
Red Oak	3	Log	16	
Balsam Fir	2	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	High	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Sugar Maple	Full	Variable	Sapling

<b>19</b>	6220 - Alder/willow	Nonstocked	3.4		Unspecified	No	
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Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	5 - 10 feet	Tall Shrub
White Spruce	Low	Variable	Log
Red Maple	Low	Variable	Pole
Paper Birch	Low	Variable	Pole
White Pine	Low	Variable	Log



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
20	4110 - Sugar Maple Association	Poletimber Well	35.2	91	51-80	N/A	2014: Monitor for top dieback in summer. May need to final harvest if it is severe.																																																										
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21	4134 - Aspen, Spruce/Fir	Poletimber Well	2.5	84	51-80	N/A	2014: Retention Island from "Tears Aspen" 11-017-06-01. See OFS layer.																																																										
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22	4319 - Mixed Upland Forest	Poletimber Well	60.0	26	1-50	N/A	2014: Stand was poorly clear-cut by GMO in 1998. There is quite a bit of scattered residual.																																																										
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Balsam Fir	Full	10 - 20 feet	Sapling																																																														
Northern White Cedar	Low	10 - 20 feet	Sapling																																																														
23	4319 - Mixed Upland Forest	Sapling Well	78.7	17	Immature	N/A	Harvest in 2007 with "Tears Aspen" 11-017-06-01.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>24</b>	6124 - Lowland Spruce-Fir	Poletimber Well	65.7	68	Unspecified	N/A	2014: Stand appear to have no past management. Consider for Type 2 old growth.
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Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Pole	8	
Quaking Aspen	10	Pole/Log	10	
Balsam Fir	15	Pole	8	
White Spruce	40	Pole/Log	10	68
Northern White Cedar	10	Log	12	
Paper Birch	20	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Full	Variable	Sapling
Dogwood (ssp.)	Low	10 - 20 feet	Tall Shrub
Tag Alder	Medium	10 - 20 feet	Tall Shrub

<b>25</b>	4111 - S.Maple, Hard Mast Association	Sawtimber Well	26.0	96	1-50	N/A	2014: Stand was cut heavy by GMO before we acquired it. Residual maple is either dead or dying. Adjacent stand is prescribed. Prescribe stand and possibly negotiate with the contractor who wins the bid on the adjacent sale to determine if it is economically feasible to harvest. 2024: Stand was part of stand 4.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	60	Log	14	96
Red Maple	25	Log	14	
Northern White Cedar	5	Pole/Log	8	
Red Oak	10	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	10 - 20 feet	Sapling
Balsam Fir	Low	>20 feet	Sapling
Red Maple	Full	10 - 20 feet	Sapling
Quaking Aspen	High	10 - 20 feet	Sapling
Ironwood	Low	10 - 20 feet	Sapling
Sugar Maple	Full	10 - 20 feet	Sapling

<b>27</b>	4110 - Sugar Maple Association	Sawtimber Well	44.2	98	81-110	N/A	2014: Thinned hard by GMO before it was acquired, Thin next rotation. Top dieback it parts of stand, monitor in summer to check severity. 2024: Heavy regeneration. Some dieback, more on the north end on stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	6	Log	12	
Red Oak	2	Log	14	
White Pine	2	Log	18	
Paper Birch	2	Pole	8	
Sugar Maple	88	Log	12	98

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	>20 feet	Sapling
Ironwood	Medium	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling
Red Oak	Medium	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Sugar Maple	Full	Variable	Sapling

<b>28</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	105.2	6	Immature	N/A	2014: Previous age 82yrs (11/2019) Cut 2018/19 as Schlatters Aspen GMO did a some aspen removal before it was acquired, Stand should be final harvested reserving White Pine, Hemlock. Red Oak and Cedar. Stand has uneven aged characteristics.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Sapling	1	
Quaking Aspen	45	Sapling	1	6
White Spruce	3	Sapling	1	
Northern White Cedar	2	Log	12	87
Sugar Maple	15	Sapling	1	
White Pine	5	XLog	20	87
Red Maple	13	Sapling	1	
Hemlock	2	Log	16	87
Balsam Fir	3	Sapling	1	
Yellow Birch	2	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Balsam Fir	High	Variable	Sapling
Red Maple	High	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																										
29	6123 - Lowland Fir	Poletimber Poor	32.6	71	51-80	N/A	2014: Old Beaver flooding. No signs of past management - consider for type 2 old growth.																																																																										
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30	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	106.1	98	81-110	N/A	2014: Thinned hard by GMO before it was acquired. Top dieback in parts of stand, monitor in summer months to determine severity.																																																																										
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31	4130 - Aspen	Sapling Well	44.7	26	Immature	N/A	2014: Clearcut by GMO in 1998.																																																																										
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32	6120 - Lowland Cedar	Poletimber Well	162.6	81	111-140	N/A	2014: North part of stand resembles D0. Road travels through stand to the south side of Schlatter Lake. No sign of past management. Consider type 2 old growth																																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>33</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	411.2	91	51-80	N/A	2014: Some wet drainages within stand. No signs of past management. Consider nominating for Type 2 old growth. Stand has uneven aged characteristics due to the prevailing wind off of Lake Superior creating pockets of wind throw which regenerate younger early successional species. 2024: NE 53 acres was acquired from Nature Conservancy in 2023.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		50	Log	12	91	Red Maple		Medium	Variable	Sapling
Red Oak		10	Log	12		Balsam Fir		High	Variable	Sapling
Northern White Cedar		5	Log	12		Red Oak		Low	Variable	Sapling
White Spruce		5	Pole/Log	10		Sugar Maple		Full	Variable	Sapling
Red Maple		10	Log	12						
Balsam Fir		2	Pole	8						
Sugar Maple		10	Log	12						
White Pine		3	XLog	20						
Paper Birch		5	Pole	8						

<b>34</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	77.4	57	51-80	N/A	2014: Wet Ground, Pockets of wind throw creating and all aged condition. No signs of past management. 2024:			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		3	Pole	8		Northern White Cedar		Low	Variable	Pole
Sugar Maple		2	Pole	8		Balsam Fir		Full	Variable	Sapling
Paper Birch		10	Pole	8		Red Maple		Low	Variable	Sapling
Quaking Aspen		10	Pole	8						
Balsam Fir		40	Pole	6	57					
White Spruce		5	Pole/Log	10						
White Pine		10	XLog	18						
Northern White Cedar		20	Log	16						

<b>35</b>	42200 - Natural White Pine	Sawtimber Well	11.9	107	51-80	N/A	2014: No signs of past management. Consider nominating for Type 2 old growth. Stand has uneven aged characteristics due to the prevailing wind off of Lake Superior creating pockets of wind throw which regenerate younger early successional species. Inoperable hillside next to Schlatter Lake. Campsites within stand along with roads providing boat access to the lake.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		5	Log	12		Sugar Maple		Low	Variable	Sapling
Paper Birch		2	Pole	6		Paper Birch		Low	Variable	Sapling
White Spruce		3	Pole/Log	10		Northern White Cedar		Low	Variable	Sapling
Northern White Cedar		10	Pole/Log	10		White Pine		Low	Variable	Sapling
White Pine		80	XLog	20	107	Balsam Fir		Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																		
<b>36</b>	429 - Mixed Upland Conifers	Sawtimber Well	16.7	101	81-110	N/A	2014: White Pine knob next to Schlatter Lake. Campsites within stand and roads providing boat access to the lake. No signs of past management. Consider nominating for Type 2 old growth. Stand has uneven aged characteristics due to the prevailing wind off of Lake Superior creating pockets of wind throw which regenerate younger early successional species.																																																																		
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<b>37</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	30.6	6	Immature	N/A	2014: Adjacent to a 1998 GMO Clearcut, A non-designated ATV trail runs through the stand. 2019: Previous age 74 (11/2019) Cut 2018/19 as Schlatters Aspen																																																																		
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<b>38</b>	500 - Water	Nonstocked	279.9		Unspecified	No	Schlatter Lake																																																																		
<b>39</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	26.7	107	111-140	N/A	2014: Tough access hardwood island surrounded by swamp. May qualify as type 2 old growth, may want to add if stands in adjacent compartment to the south qualify as type 2 old growth. Factor Limit as "no access" 2024: Did not get to this stand in 2024.																																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>40</b>	6120 - Lowland Cedar	Sapling Poor	5.9	64	1-50	N/A	2014: Previously a DO. No signs of past management. Consider nominating for Type 2 old growth.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Sapling/Pole	4	
Northern White Cedar	90	Sapling/Pole	4	64
White Pine	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	< 5 feet	Sapling

<b>41</b>	429 - Mixed Upland Conifers	Sawtimber Well	6.0	131	111-140	N/A	2014: Island in Schlatter Lake. Campsite within stand. No signs of past management. Consider nominating for Type 2 old growth. 2024: Did not get to this stand in 2024.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	50	XLog	24	131
Red Maple	5	Log	16	
Northern White Cedar	20	Log	12	
Balsam Fir	15	Pole	6	
White Spruce	5	Pole/Log	10	
Paper Birch	5	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Paper Birch	Low	Variable	Sapling
Northern White Cedar	Medium	Variable	Sapling
Balsam Fir	Full	Variable	Sapling
Red Maple	Medium	Variable	Sapling

<b>42</b>	6239 - Mixed Emergent Wetland	Nonstocked	2.5		Unspecified	No	2024: Did not get to this stand in 2024.
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Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full	5 - 10 feet	Tall Shrub

<b>43</b>	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	26.0	71	51-80	N/A	2014: Stand was significantly impacted by beavers in the past. Forested sections could be considered upland. Possible access from the east.
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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	40	Pole	8	71
White Pine	5	XLog	20	
White Spruce	3	Pole/Log	10	
Sugar Maple	5	Log	14	
Northern White Cedar	27	Log	12	
Red Maple	15	Pole	8	
Paper Birch	3	Pole	8	
Yellow Birch	2	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Balsam Fir	Full	Variable	Sapling

<b>44</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	20.7	107	51-80	N/A	2014: Old road through stand that ATVs have opened up. Road comes from old clear-cut to the north. 2019: Cut 2018/19 as Schlatters Aspen
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	75	Log	14	107
Yellow Birch	2	Log	12	
Paper Birch	3	Pole	6	
Balsam Fir	3	Pole	8	
Northern White Cedar	5	Log	12	
White Spruce	2	Pole/Log	10	
White Pine	2	XLog	18	
Red Maple	8	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Sugar Maple	Full	Variable	Sapling



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45	4112 - Maple, Beech, Cherry Association	Sawtimber Well	30.3	107	141-170	N/A	2014: High Rock Bay road travel through the stand and receives high volume of recreational traffic during the summer months. No signs of past management. Consider nominating for Type 2 old growth.																																																								
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46	42200 - Natural White Pine	Sawtimber Well	1.2	111	81-110	N/A	2014: Small White Pine Knob on the southwest side of Schlatter's Lake. Consider for Type 2 Old Growth. Cedar is on Shoreline.																																																								
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47	6120 - Lowland Cedar	Poletimber Well	14.1	66	Unspecified	N/A	2014: ATV trail cut open on very north edge of stand. No signs of past management. Consider nominating for Type 2 old growth. Union creek travels through stand. 2024: Did not get to this stand in 2024.																																																								
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48	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	17.1	78	51-80	N/A	2014: ATV trail cut open on west side of stand. No sign of previous management. Consider for type 2 old growth. 2024: Did not get to this stand in 2024.																																																								
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49	6127 - Lowland Pine	Poletimber Poor	7.9	99	1-50	N/A	2014: No signs of previous management. Consider for type 2 old growth. Stand is flooded by Schlatter Lake when water levels are high.																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
50	6122 - Black Spruce	Sapling Medium	77.9	64	Unspecified	N/A	2014: Currently a federally recognized ERA as a poor conifer swamp. No signs of previous management, Consider for type 2 old growth. 2024: Did not get to this stand in 2024.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
White Pine		10	Pole	6					
Tamarack		30	Sapling/Pole	4					
Black Spruce		50	Sapling	3	64				
Paper Birch		10	Sapling	2					
51	42200 - Natural White Pine	Sawtimber Well	38.3	105	81-110	N/A	2014: No signs of previous management. Consider of type 2 old growth. Forest road into stand from High Rock Bay road provides boat access to Schlatter Lake. Campsites in the north part of stand. 2024: Did not get to this stand in 2024.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		5	Pole	6		Paper Birch	High	Variable	Sapling
Paper Birch		3	Pole	8		Black Spruce	Low	Variable	Sapling
Northern White Cedar		10	Pole	8					
White Pine		70	XLog	20	105				
Black Spruce		10	Pole	6					
Red Maple		2	Pole	8					
52	4319 - Mixed Upland Forest	Sawtimber Well	111.1	101	51-80	N/A	2014: Forest road through stand provides Boat access to Schlatter Lake from the High Rock Bay road. Also ATV trail cut through the stand and possibly goes around Schlatter Lake. 2024: Did not get to this stand in 2024.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		21	XLog	20	101	Red Maple	High	Variable	Sapling
Balsam Fir		10	Pole	6		Northern White Cedar	Low	Variable	Sapling
White Spruce		15	Pole/Log	10		Black Cherry	Low	Variable	Sapling
Yellow Birch		5	Log	14		Balsam Fir	Full	Variable	Sapling
Paper Birch		19	Pole	6		Paper Birch	High	Variable	Sapling
Red Maple		15	Log	16					
Quaking Aspen		10	Log	12					
Northern White Cedar		5	Pole/Log	10					
53	6122 - Black Spruce	Poletimber Well	23.0	74	51-80	N/A	2014: No signs of past management. Consider nominating for Type 2 old growth. Stand has uneven aged characteristics due to the prevailing wind off of Lake Superior creating pockets of wind throw which regenerate younger early successional species. 2024: Did not get to this stand in 2024.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		5	Log	12		Black Spruce	High	Variable	Sapling
Balsam Fir		10	Pole/Sapling	4		Balsam Fir	High	Variable	Sapling
Black Spruce		70	Pole	6	74	Northern White Cedar	Low	Variable	Sapling
Northern White Cedar		10	Log	12					
Paper Birch		5	Pole/Sapling	4					
54	6122 - Black Spruce	Poletimber Well	26.6	87	81-110	N/A	2014: Federally recognized ERA as a Poor Conifer Swamp. No signs of past management. Consider nominating for type 2 old growth.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Paper Birch		3	Sapling/Pole	4		Paper Birch	Medium	Variable	Sapling
Black Spruce		95	Pole	6	87	Black Spruce	High	Variable	Sapling
White Pine		2	XLog	20					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																						
<b>58</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	9.8	87	81-110	N/A	11/2019 This was part of Stand 28 originally. It was split off to buffer the stream.  GMO did a some aspen removal before it was acquired, Stand should be final harvested reserving White Pine, Hemlock. Red Oak and Cedar. Stand has uneven aged characteristics.																																																																						
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<b>64</b>	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	27.2	96	1-50	N/A	Maple has top dieback which is severe is some areas of the stand. Even age manage the stand for Aspen, Pine and Oak. Final harvest reserving White Pine, Cedar and Red Oak. 2024: Cut in 2021, Soggy Bottom Mix MWR, unit 5. Stand was a part of a silviculture research project (MWR). Large group selection and patch cuts. Harvest openings will range from 0.25 -1.0 acre in size and comprise 30% of the stand. Leave all tops > 8".																																																																						
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<b>100</b>	122 - Road/Parking Lot	Nonstocked	4.2		Unspecified	No	2024: Acquired easement on 6/2/2008. Mandan Loop Road.																																																																						