



# Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45048

Entry Year 2022

Acreage: 2,746

County Chippewa

Management Area: North Rudyard

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**Revision Date:** 2020-07-14

**Stand Examiner:** Josh Brinks

**Legal Description:**

T45N R3W Secs 11-14, 23, 24, 26,35

**Identified Planning Goals:**

Management this entry will be focused in two areas, the south half of the hardwood stand and the west end of Spile Dam Road. The south half of the hardwood stand will be selectively managed to enhance the uneven aged characteristics of the stand and attempt to regenerate the desirable hardwood species. Along with this, a stand of mature lowland hardwoods will be final harvested. On the far side of Spile Dam Road, against USFS property, the plan is to focus management on all stands that are mature and are ready for a final harvest. Because of the access issues on the road the goal is to set up all the timber accessed via Spile Dam Road that is west of the bridge at one time.

**Soil and topography:**

Pickford Silty Clay in the north portion. Markey Carbondale Muck underlies the western and southern cedar swamps. Pense Loamy sand is under the northern hardwoods. The compartment is generally flat with a decent hill sloping from the hardwood down to the swamp.

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

On the north and northeast sides of this compartment is more state land. The west side of the compartment is bordered by the Hiawatha National Forest in an area called the Delirium Wilderness. There is private on the south and south east side of the compartment. Rudyard Schools own 160 acres in the interior, as well as 240 acres bordering the southeast corner. There are two other private landholdings in the interior with hunting camps. The ownership on the southeast side is a large sugar bush operation. Land use is hunting, dispersed camping, trail riding on forest roads, and snowmobiling. There are no ORV trails.

**Unique Natural Features:**

None known at this time. Compartment adjoins the National Forest designated Delirium Wilderness.

**Archeological, Historical, and Cultural Features:**

Four foundations and debris can be found within the compartment. There are no indications of homesteads or logging camps. There is at least one archaeological site identified in the compartment. MNFI has been referenced for any concerned species related to treatments.

**Special Management Designations or Considerations:**

A portion of this compartment is located within the deer yard that spans the bottom of the hill and extends to Tilson Road.

**Watershed and Fisheries Considerations:**

Fisheries Concerns: There are no permanent streams in the compartment. There is, however, a small intermittent stream flowing west from Section 11 and also one flowing north from section 12. These intermittent streams flow to the Waishkey River (West Branch and mainstem). In the southern portion of the compartment, the North Pine River bisects the stands. The North Pine River is a designated trout stream and for clear-cut treatments in areas susceptible to aspen regeneration, a 300 ft buffer is recommended. Otherwise, standard BMP's apply when working near surface water.

**Wildlife Habitat Considerations:**

This compartment is part of the North Rudyard MA where featured wildlife species include American woodcock, red-shouldered hawk, ruffed grouse, and white-tailed deer. The compartment is influenced by a sandy ridge beginning near the center of the compartment and continuing east. Northern hardwoods dominate the ridge, while lowland types including lowland conifer, lowland deciduous, and shrubby and marshy lowlands dominate in other areas. The northeast part of the compartment is part of deer wintering complex.

Wildlife objectives include diversifying northern hardwoods, maintaining lowland cedar stands and wetlands, and encouraging early successional habitat. The northern hardwood stand has undergone thinning over the past 10 years, and will continue a thinning rotation this entry cycle to encourage age class and structural diversity while maintaining 75% or

more canopy closure to benefit species like red-shouldered hawks. Conifers are very limited and will be encouraged by retaining during harvest activities. Some lowland aspen or mixed habitat was treated in recent years, and treatment of others is planned this cycle. This will encourage young early successional habitat and will provide varying age classes of this type of habitat in the area that will benefit woodcock, ruffed grouse, and deer. A narrow band between the hardwoods and the lowland stands to the west was harvested in the 1970s as part of a wildlife habitat treatment. However, recent and planned treatment of lowland stands in this area will result in similar habitat. If planned treatments occur, this band will likely be included into the adjacent treated stand as a result. This band could be separated out in a future entry cycle if a temporary opening or young growth is desired at that time as adjacent stands mature. Wetlands will be buffered, which will benefit a variety of wildlife species by maintaining shade and travel corridors.

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

Surface sediments consist of coarse textured glacial till, peat and muck and lacustrine (lake) clay and silt. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Formations subcrop below the glacial drift. These formations are quarried for stone/dolomite elsewhere in the UP. Gravel pits are located to the east of the compartment. There should be good gravel potential on the upland areas. There is no economic oil and gas production in the UP, currently.

### **Vehicle Access:**

The east side has access on reasonably good forest roads mostly in the large hardwood stand. This is also the snowmobile trail. The north side is bounded by the Spile Dam Road and is also a snowmobile trail. There are no other interior roads and the south and west side are inaccessible, even from the Forest Service roads to the west.

### **Survey Needs:**

A survey is needed in T45N R03W Sections 2 and 11.

### **Recreational Facilities and Opportunities:**

The snowmobile trails are the only designated trails in the compartment. There is also a non-state managed ski trail that starts on school property to the south and uses some of the existing state forest roads. This trail is managed and maintained by a volunteer group. The extensive forest road system in the hardwood allows for ORV riding. Good hunting access to the east and north sides but walk in only into the cedar swamps for the interior.

### **Fire Protection:**

There is good access to the large hardwood stand and some of the surrounding areas. Vehicle access is more challenging on the north end of the compartment as the roads are of lower quality. There are not many good water sources except for a few beaver ponds and streams in the northern part of the compartment.

### **Additional Compartment Information:**

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

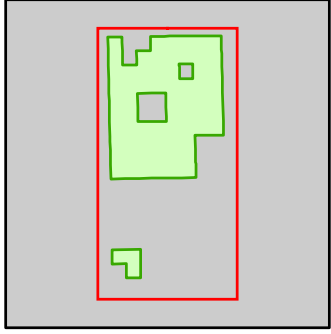
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

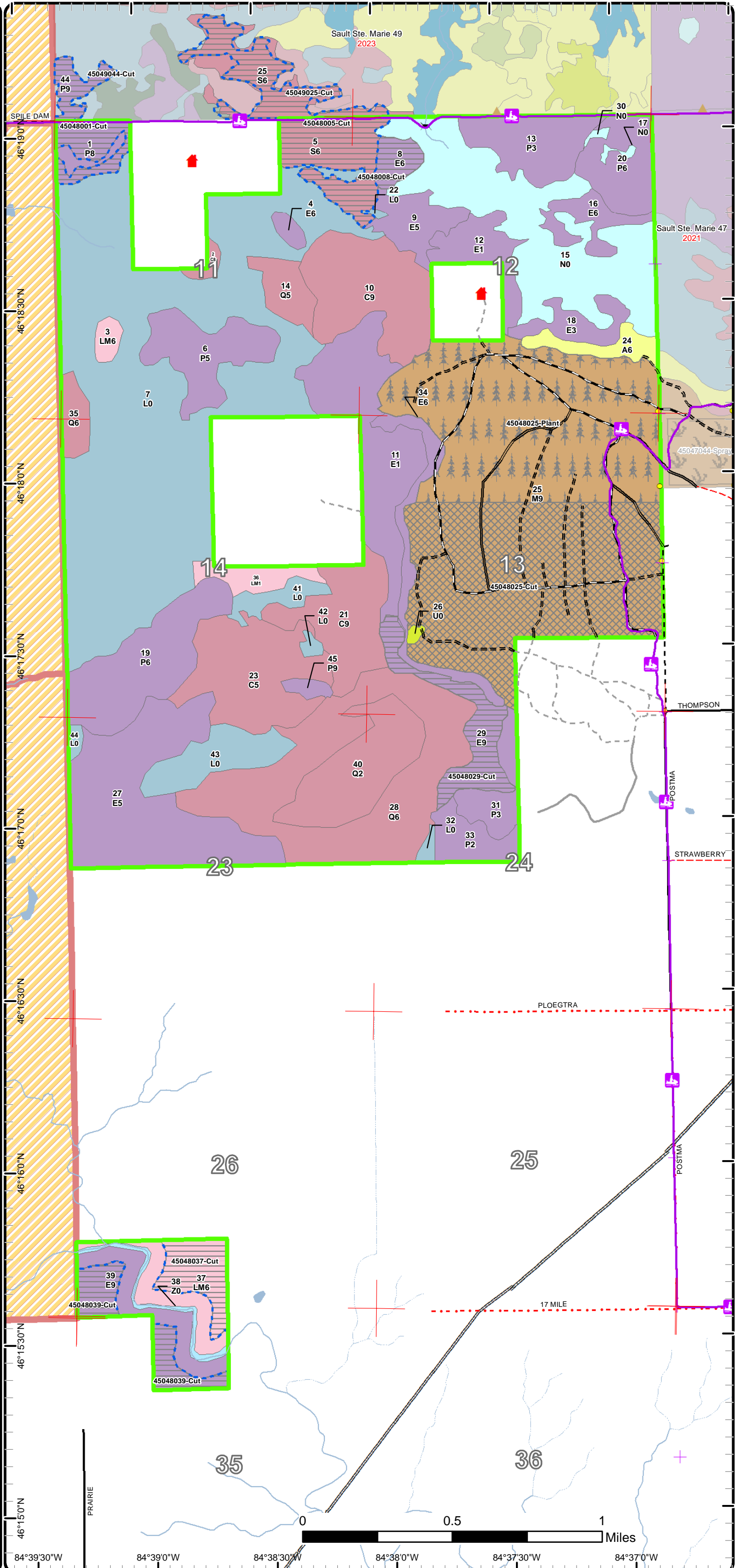
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 48  
 T45N,R03W, Sec. 11-14, 23, 24,  
 26, 35  
 County: Chippewa  
 Unit: Sault Ste. Marie  
 Mgmt Area: North Rudyard  
 YOE: 2022  
 Acres: 2,747 GIS Calculated  
 Examiner: Josh Brinks  
 Map Revised: 8/13/2020  
 Map Phase: Web Post



- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
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- 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
- ⚡ Snowmobile Trails
- ⚡ Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- 🏠 Cabin
- ▲ Berms
- ⚡ Bridges
- Pipeline
- ▭ Compartment Boundary
- ▭ Treatments with Site Conditions
- ▭ Selection (Group, Single Tree)
- ▭ Planting (tree species)
- ▭ Clearcut (w/Reserves)
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- ▭ 413 - Aspen
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Sault Ste. Marie 49  
2023

Sault Ste. Marie 47  
2021

SPILE DAM

THOMPSON

STRAWBERRY

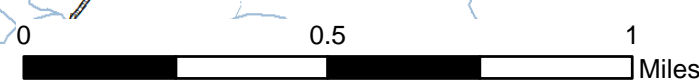
PLOEGTRA

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POSTMA

PRAIRIE

17 MILE

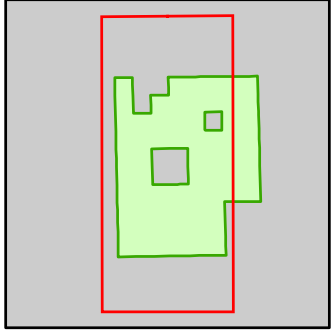


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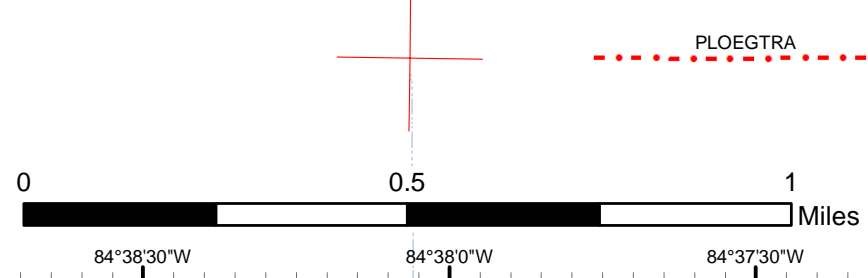
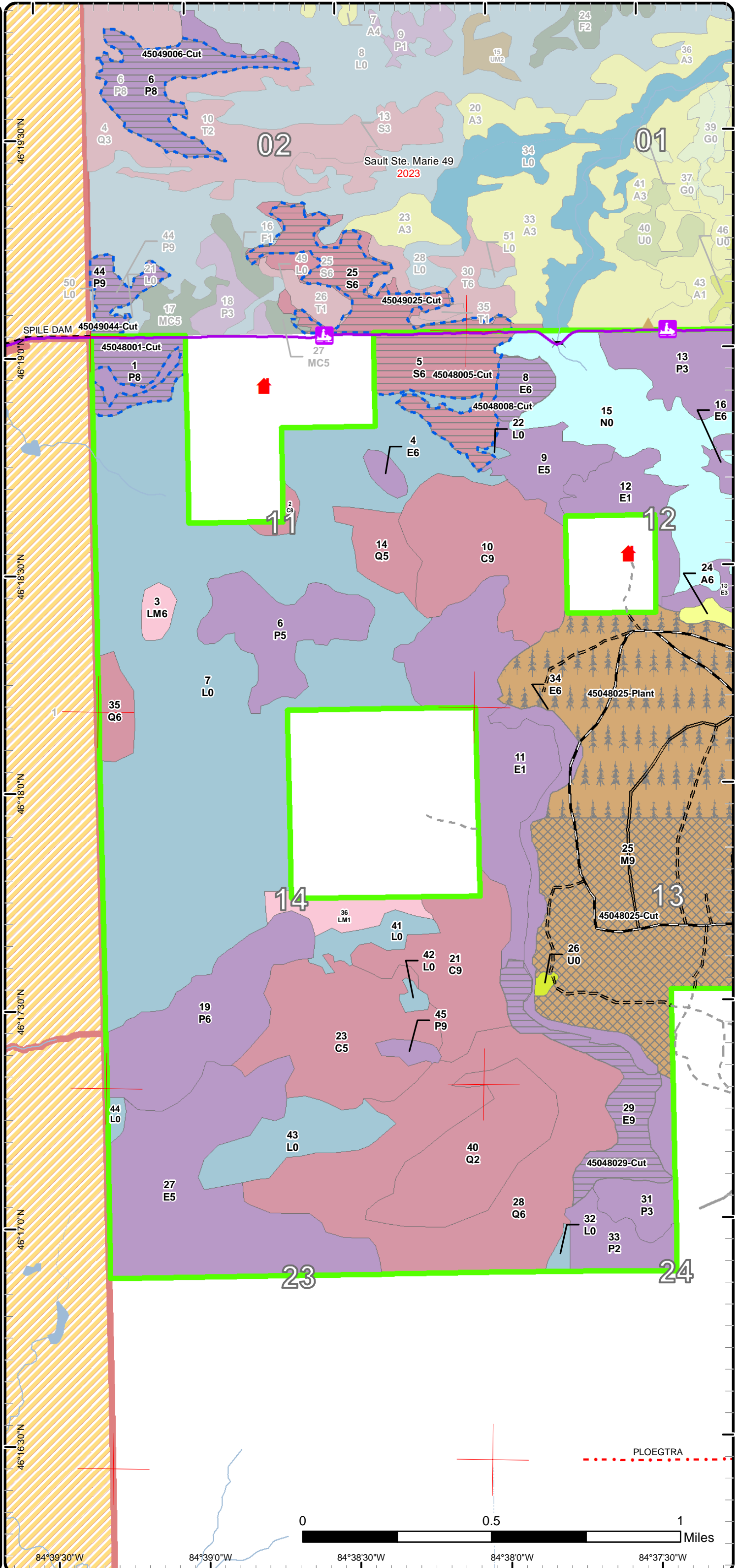
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46°18'30"N  
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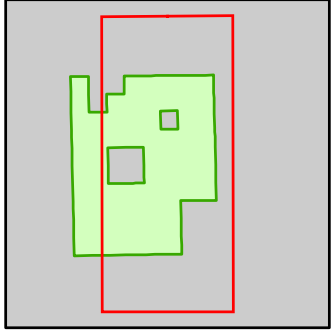


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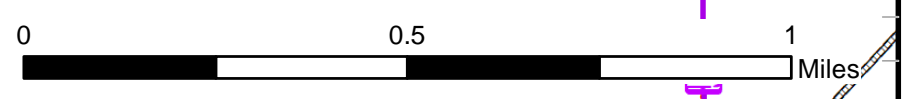
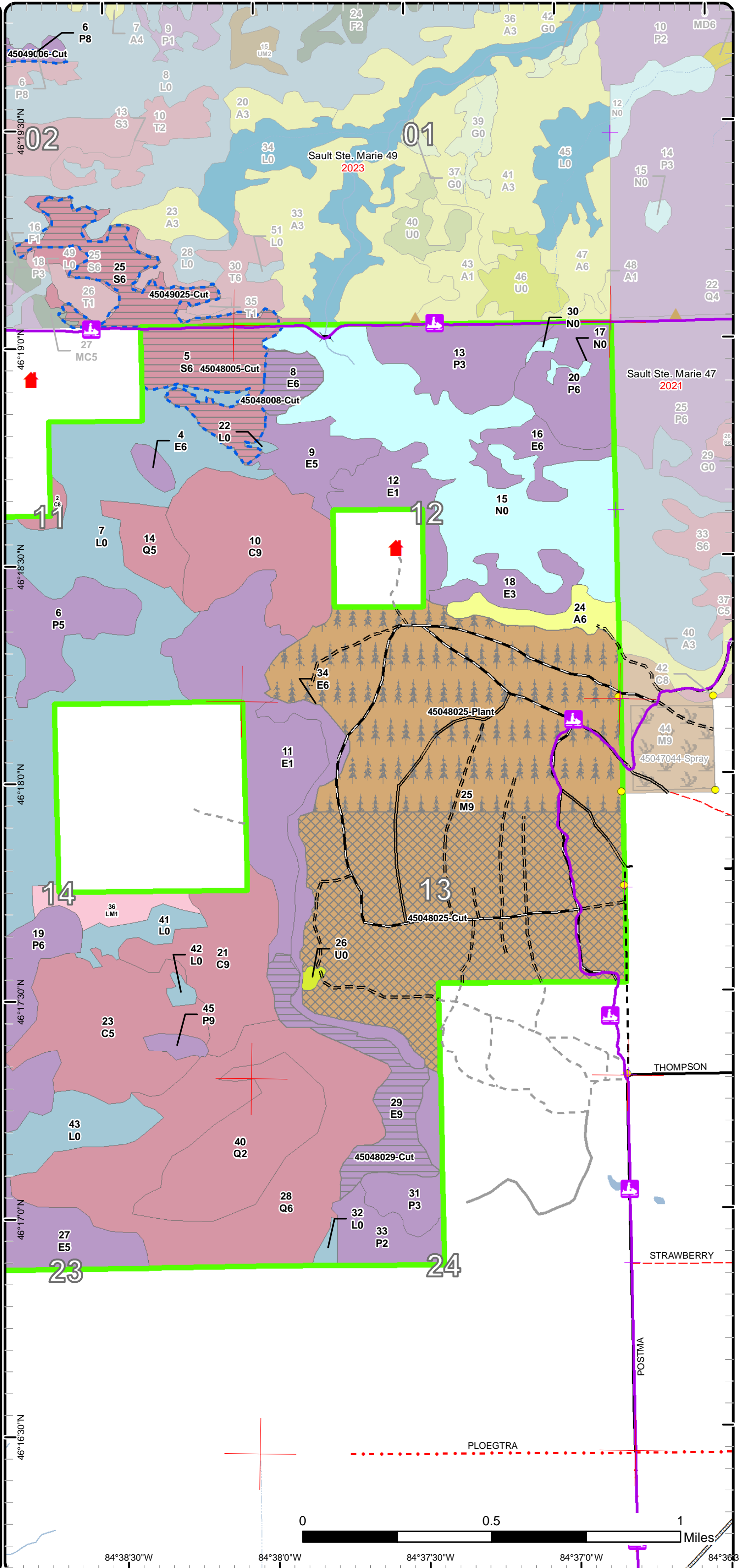


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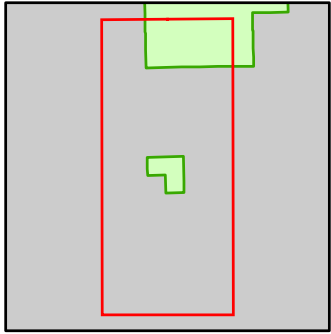
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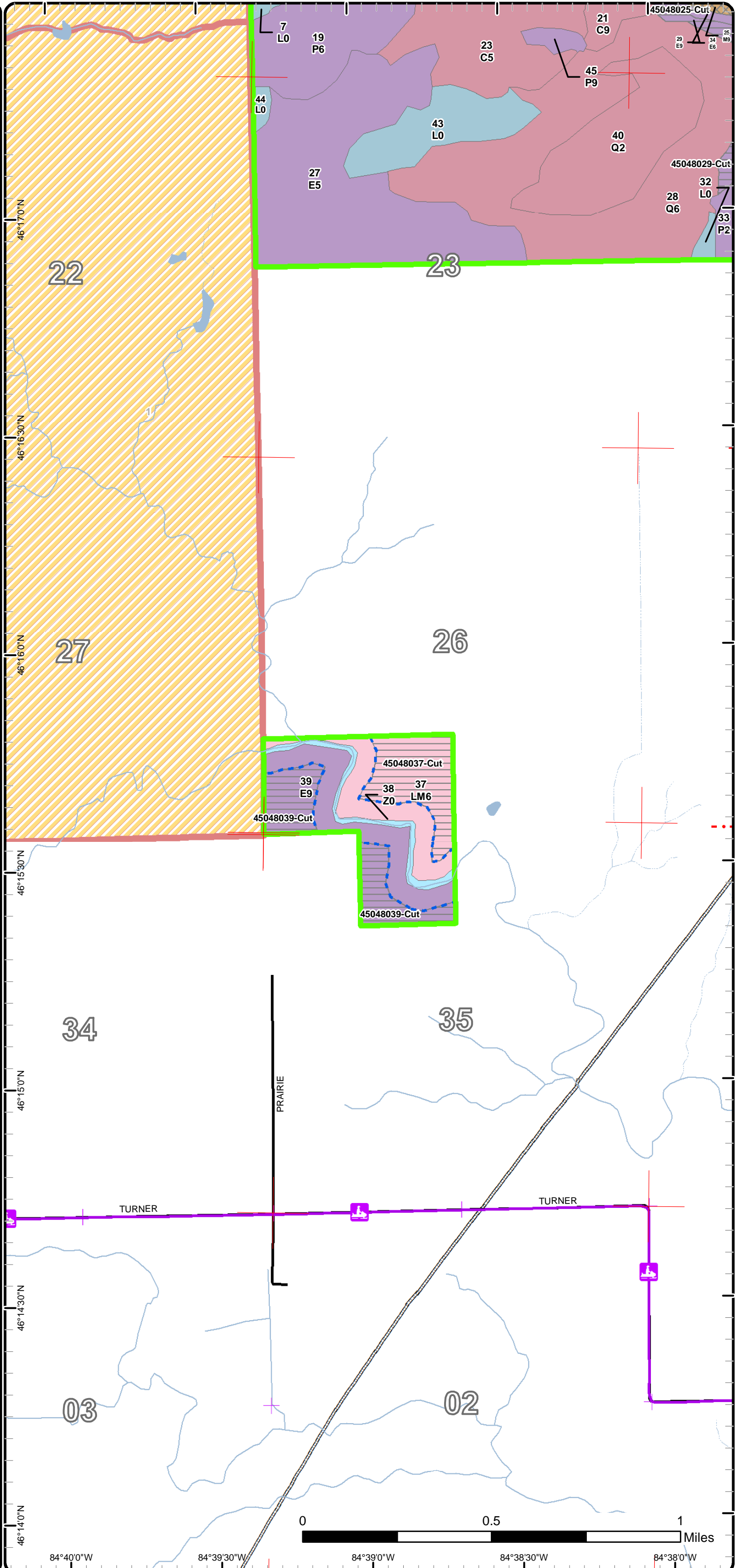
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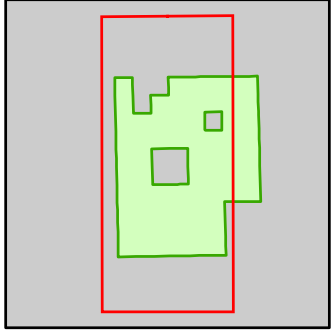


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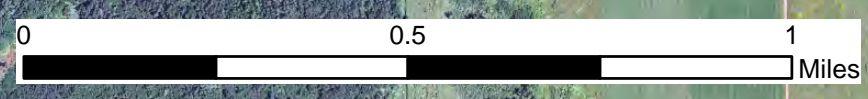
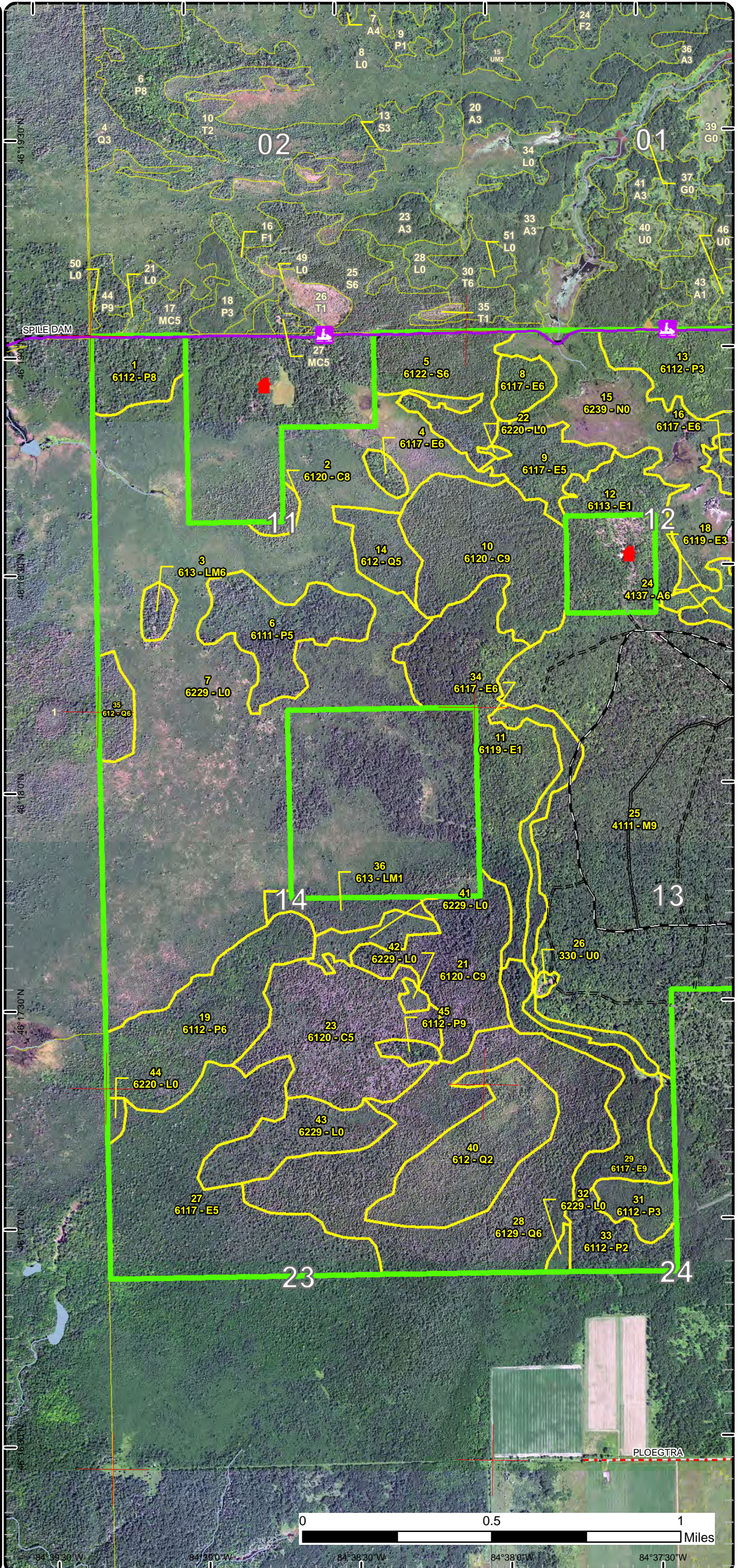


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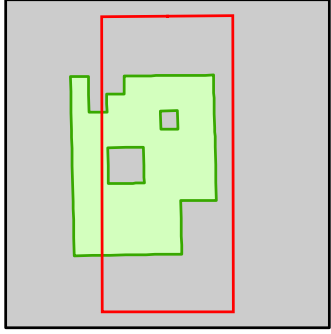
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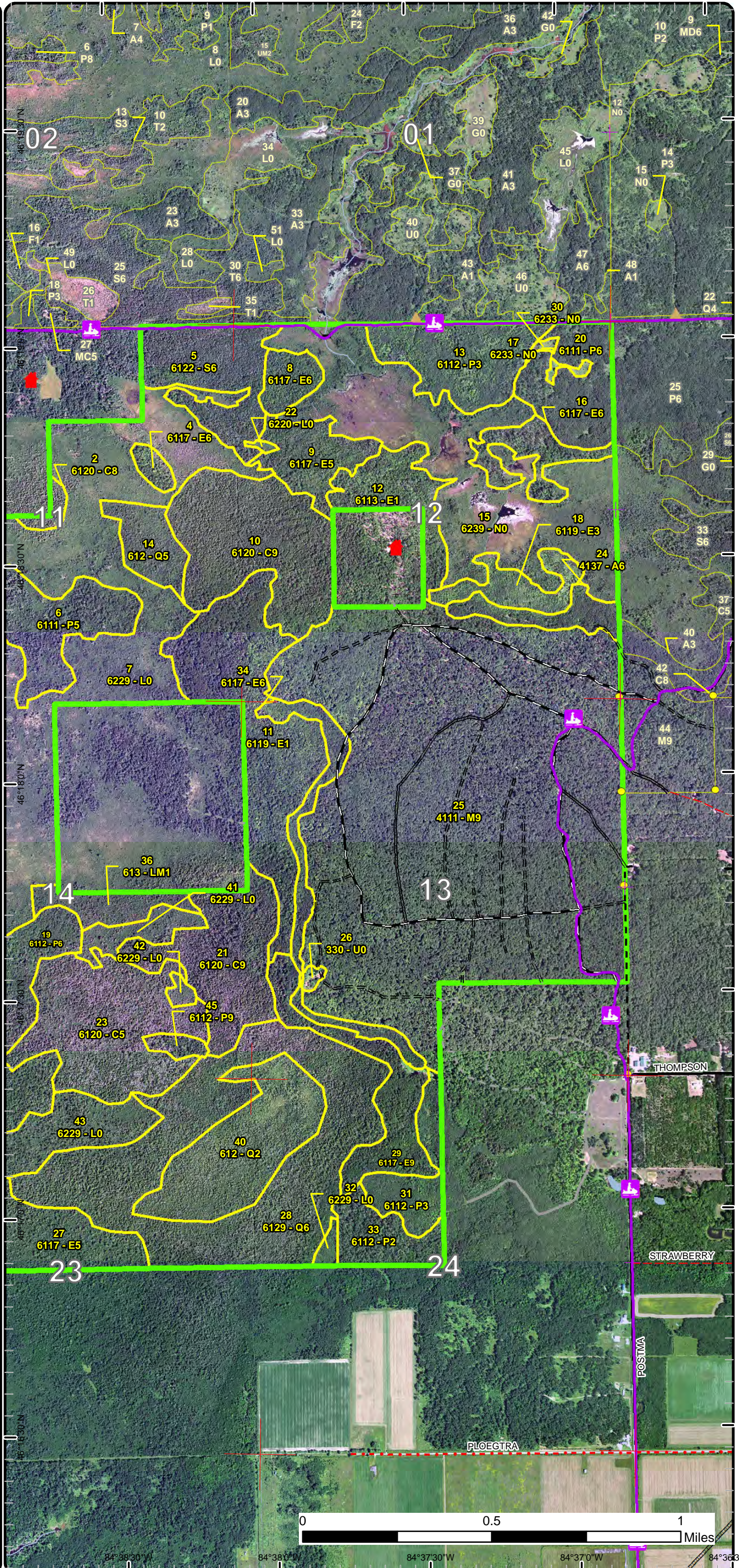
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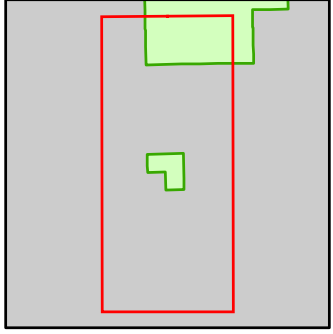


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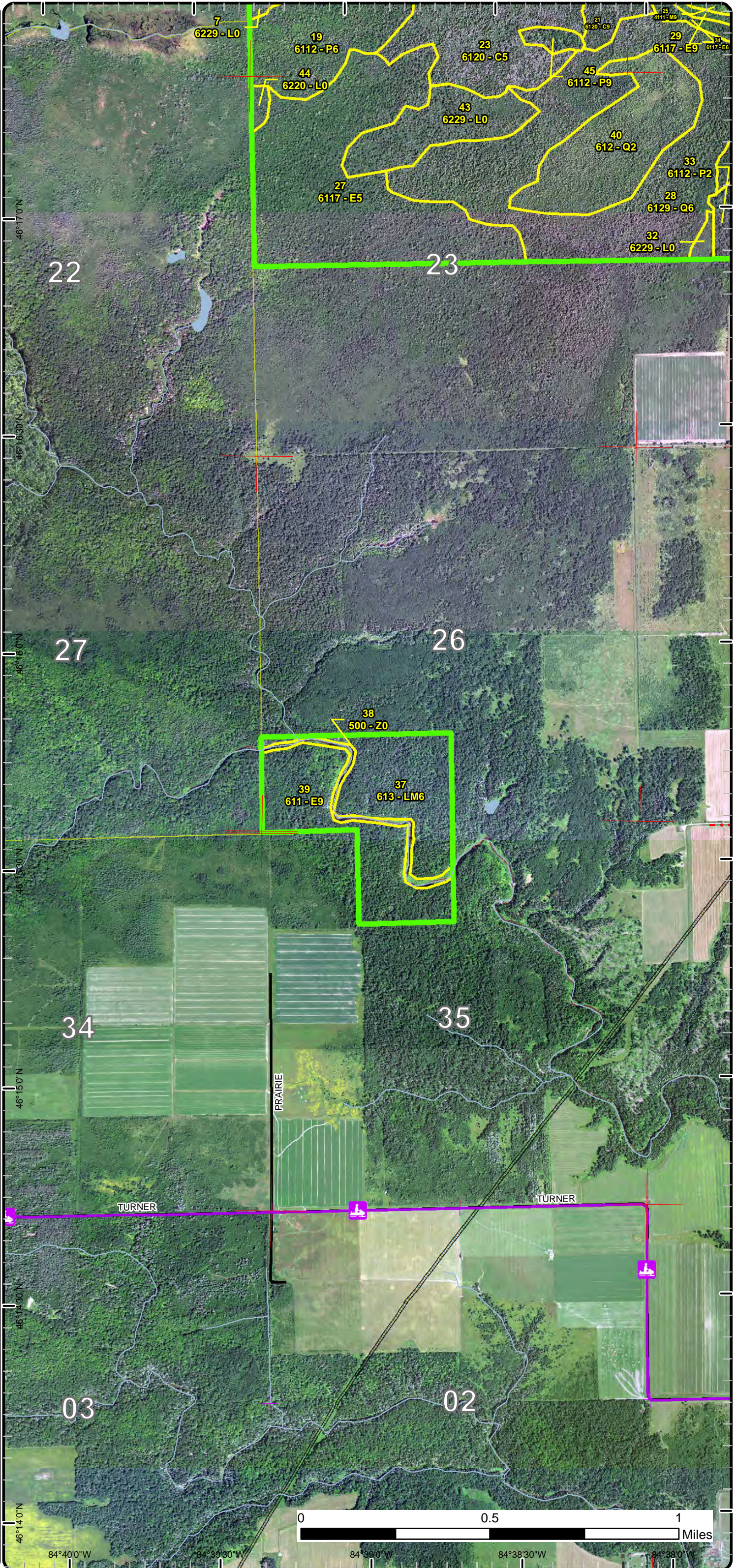


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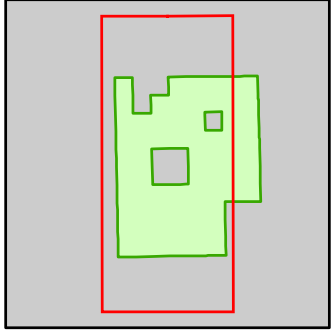


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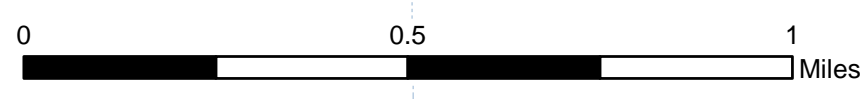
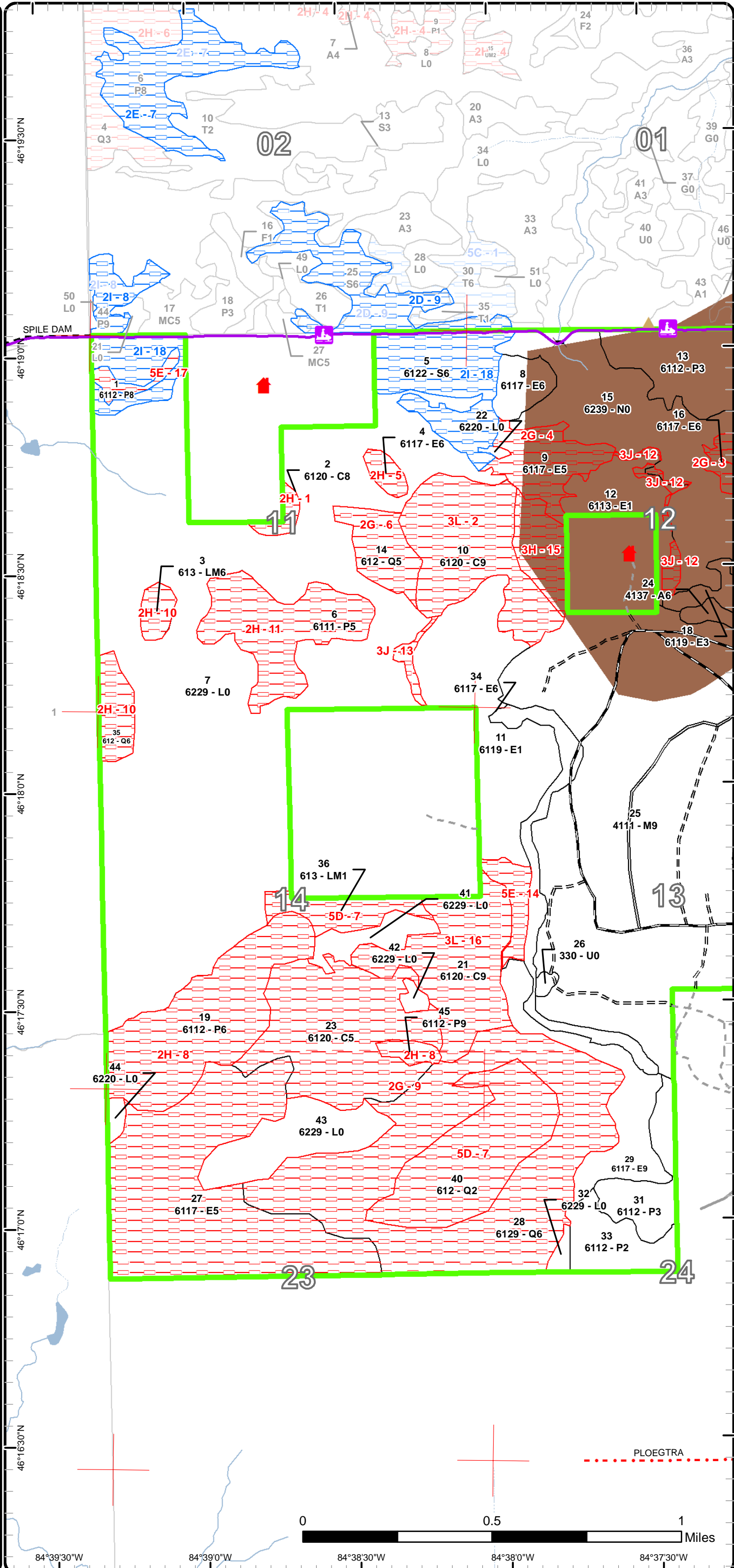


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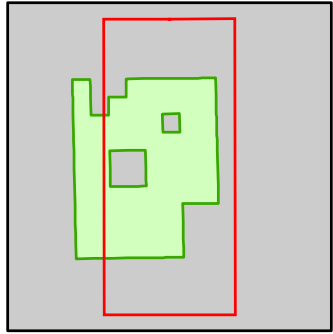
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- Unavailable
- 2I: Survey needed
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Deer Winter Range



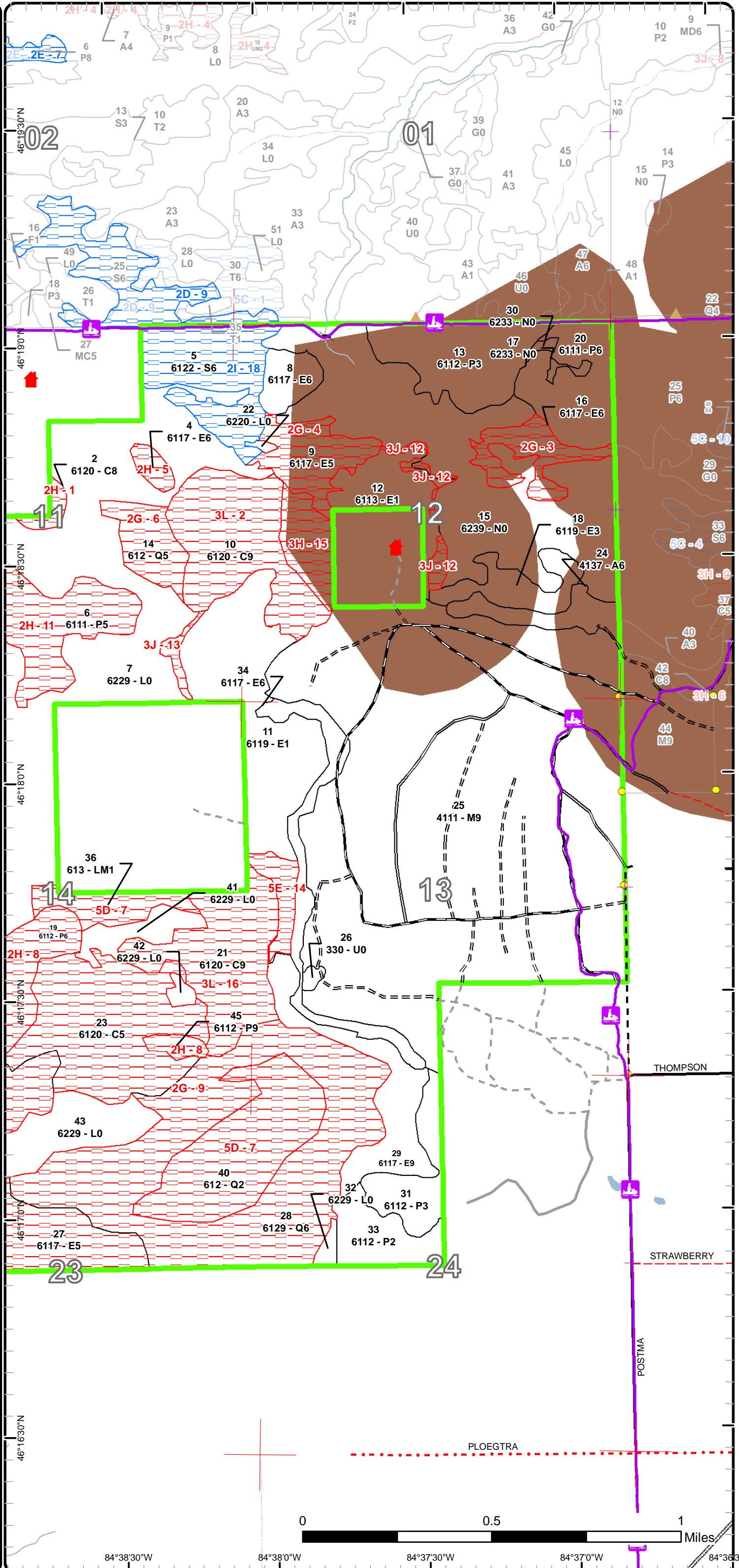
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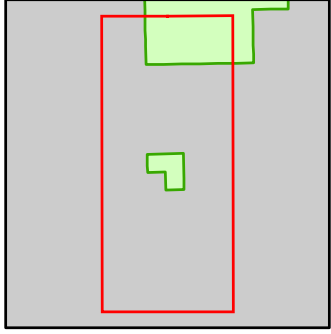


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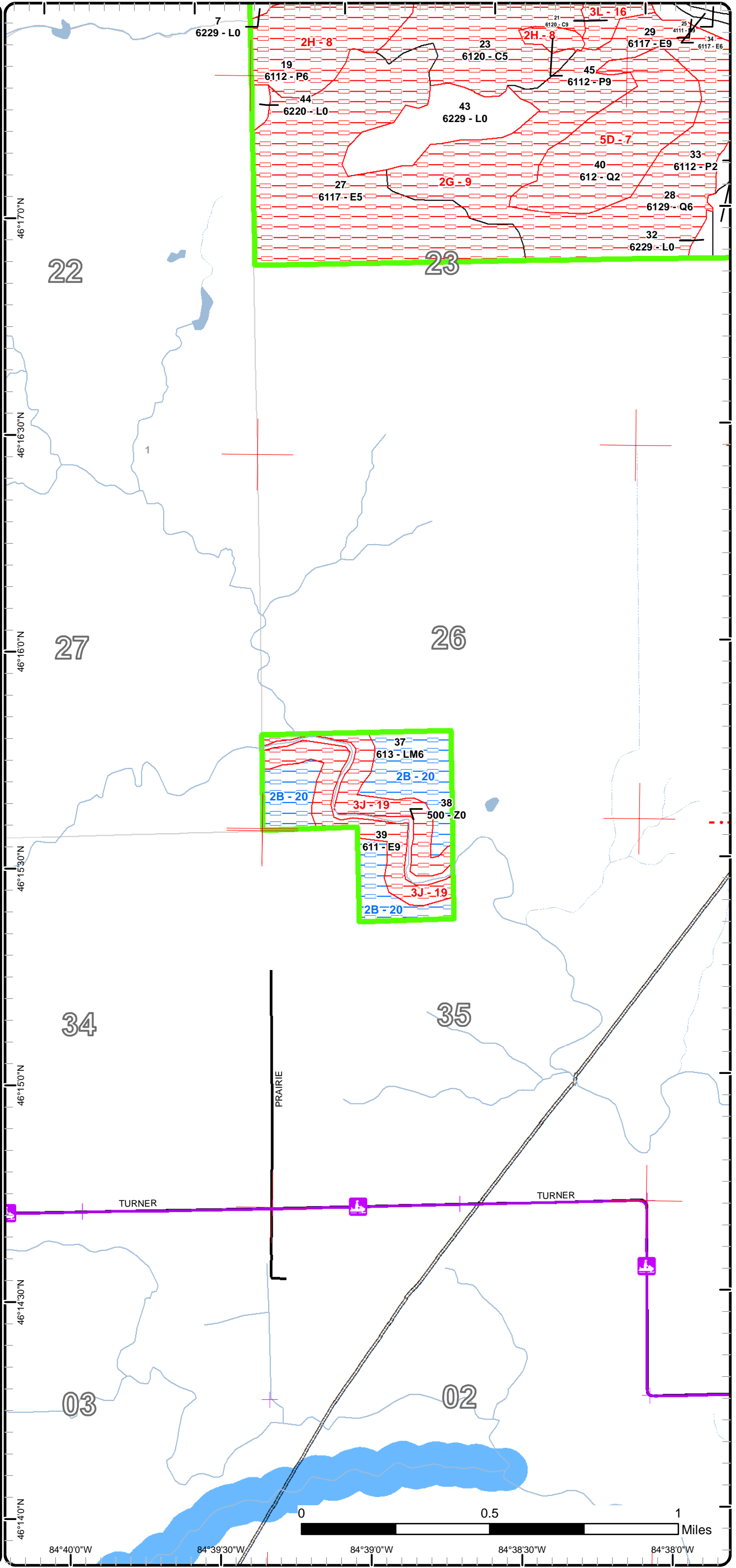


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- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



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	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	17
Cedar	0	0	0	0	0	0	0	0	0	0	0	62	0	179	0	0	0	0	240
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	25	48	25	41	0	0	0	28	134	0	0	0	5	0	0	0	0	306
Lowland Conifers	0	0	0	0	0	0	15	0	0	21	0	0	0	241	0	0	0	0	277
Lowland Deciduous	0	130	21	0	0	0	29	0	205	13	91	0	0	6	0	0	0	0	495
Lowland Mixed Forest	0	0	0	0	0	0	0	53	18	7	0	0	0	0	0	0	0	0	78
Lowland Shrub	568	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	568
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0	51
Marsh	163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	162
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	541	0	0	0	0	0	540
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
<b>Total</b>	<b>742</b>	<b>155</b>	<b>69</b>	<b>25</b>	<b>41</b>	<b>17</b>	<b>44</b>	<b>53</b>	<b>251</b>	<b>175</b>	<b>142</b>	<b>62</b>	<b>541</b>	<b>431</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2745</b>



## Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit  
Year of Entry: 2022

Acres of Harvest

Compartment 48  
Total Compartment Acres: 2,746

Commercial Harvest - 326  
Harvests with Site Condition - 135  
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
Lowland Aspen/Balsam Poplar	23	0	0	0	0	0	0	0	0	23
Lowland Deciduous	86	0	0	0	0	0	0	0	0	86
Lowland Mixed Forest	30	0	0	0	0	0	0	0	0	30
Lowland Spruce/Fir	51	0	0	0	0	0	0	0	0	51
Northern Hardwood	0	272	0	0	0	0	0	0	0	272
<b>Total</b>	<b>190</b>	<b>272</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>462</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	462	0	268	0	0	0	0	0	0	730
Next Step	0	0	272	0	0	730	0	0	0	1002
<b>Total</b>	<b>462</b>	<b>0</b>	<b>541</b>	<b>0</b>	<b>0</b>	<b>730</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1732</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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**Proposed Treatments:**

<b>1</b>	<b>45048001-Cut</b>	22.6	6112 - Lowland Aspen	Sawtimber Medium	78	51-80	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2". Do not cut cedar, pine, hemlock, oak or yellow birch. Leave retention patches focused on areas that are too wet to harvest and have tag alder (approximate location already typed out with 5E site condition).</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes aspen, spruce, fir, birch and maple.</p> <p><u>Other Comment:</u> Treatment size and shape may vary. Be on the look out for any evidence of an archaeological site.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>5</b>	<b>45048005-Cut</b>	51.2	6122 - Black Spruce	Poletimber Well	90	111- 140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2" in DBH. Do not cut white pine, red pine, hemlock, yellow birch or oak. Leave a few scattered retention patches focused on areas of smaller DBH and wet patches. Leave a small strip along the wetland edge as a wildlife corridor.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration includes spruce, fir, tamarack, paper birch, jack pine, white pine, cedar and maple.</p> <p><u>Other Comment:</u> Treatment size and shape may vary. Be on the look out for any evidence of an archaeological site.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
<b>8</b>	<b>45048008-Cut</b>	13.3	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	88	111- 140	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2". Do not cut white pine, red pine, hemlock, cedar, oak or yellow birch. Leave a patch of retention and try to focus it on wet ground. Also leave a narrow strip along the wetland as a wildlife corridor.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, spruce, fir, pine, and cedar.</p> <p><u>Other Comment:</u> Treatment size and shape may vary.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
<b>25 45048025-Cut</b>	272.1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	110	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand to 80 BA. Do not remove any conifers except those needed for operations. Open up larger canopy gaps around oaks and yellow birch to promote regeneration of these species. A few oak may be taken to encourage stump sprouting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Planting, Underplant</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes maple, oak, basswood, ash, birch, aspen, Ironwood, hemlock</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>25 45048025-Plant</b>	268.4	4111 - S.Maple, Hard Mast Association	Sawtimber Well	110	81-110	Planting	Underplant	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> WLD is considering planting Hemlock in portions of this stand to increase diversity.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen would be a some hemlock making it above the deer.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
<b>29 45048029-Cut</b>	41.0	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Cut all trees down to 2". Leave all cedar, pine, hemlock, oak and yellow birch. Leave two patches of timber focused on areas with cedar if possible.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, maple, spruce, fir, cedar, pine.</p> <p><u>Other Comment:</u> Treatment size and shape may vary when field work is complete.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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37	45048037-Cut	30.0	613 - Lowland Mixed Forest	Poletimber Well	67	111-140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Cut all trees down to 2" in dbh. The buffer strip along the river will serve as retention for this treatment. Also leave all pine, cedar, hemlock, yellow birch and oak if they are present in the stand.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regen includes aspen, birch, maple, ash, spruce, fir, pine, cedar, tamarack.

Other Comment:

Site Condition Unknown Access

Proposed Start Date: 10/1 /2021

39	45048039-Cut	31.5	611 - Lowland Deciduous Forest	Sawtimber Well	71	111-140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Cut all trees down to 2" in DBH. The buffer along the river will serve as retention. Also do not cut any pine, hemlock, cedar, yellow birch or oak.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regen includes aspen, birch, maple, ash, spruce, fir, cedar, pine, oak and tamarack.

Other Comment:

Site Condition Unknown Access

Proposed Start Date: 7 /21/2020

6	45049006-Cut	41.5	6112 - Lowland Aspen	Sawtimber Medium	89	Unspecified	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Cut all trees down to 2" in DBH. DO not cut pine, oak, hemlock, cedar or yellow birch. Leave one half acre retention patch for every 10 acres of harvest.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regen includes aspen, birch, maple, ash, spruce, fir, cedar, tamarack and pine.

Other Comment:

Other Comment: OYE treatment to be cut with compartment to the south. This may end up being an optional unit because of the difficulty of access. The treatment size and shape is going to vary once the lines are established.

Site Condition Road Needed

Proposed Start Date: 10/1 /2021

25	45049025-Cut	44.1	6122 - Black Spruce	Poletimber Well	87	Unspecified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Cut all trees down to 2" in DBH. This stand was previously set up and never cut. Freshen up the red line and mark some scattered leave patches for retention.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regeneration includes spruce, fir, aspen, birch, maple, tamarack, cedar and pine.

Other Comment:

Site Condition Portable Bridge Needed

Proposed Start Date: 10/1 /2021



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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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44	45049044-Cut	13.6	6112 - Lowland Aspen	Sawtimber Well	78	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Cut all trees down to 2". Leave all pine, cedar, hemlock, yellow birch, and oak. If the treatment ends up being greater than 10 acres then  
Specs: leave a patch of retention focused on wetter ground in the stand,

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Regen: Acceptable regen includes aspen, birch, maple, spruce, fir, ash, pine, tamarack and cedar.

Other Comment: OYE treatment to be cut with adjacent compartment to the south.

Site Condition Survey Needed

Proposed Start Date: 10/1 /2021

Total Treatment Acreage Proposed: **829.3**

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 48

Year of Entry: 2022

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
17	17	0	0
240	0	0	240
2	2	0	0
307	139	23	146
277	0	0	277
494	213	31	250
78	0	30	48
568	568	0	0
51	0	51	0
163	162	0	1
541	541	0	0
9	9	0	0
2,746	1,650	135	962
	60%	5%	35%

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions											
					2B	2I	2G	2H	3H	3J	3L	5D	5E			
17	17	0	0	0	Aspen											
240	0	0	240	240	Cedar			88	5	20		128				
2	2	0	0	0	Low-Density Trees											
307	139	23	146	146	Lowland Aspen/Balsam Poplar		23	0	140							6
277	0	0	277	277	Lowland Conifers			193	15					69		
494	213	31	250	250	Lowland Deciduous	31		196	6		38					11
78	0	30	48	48	Lowland Mixed Forest	30			7		23			18		
568	568	0	0	0	Lowland Shrub				0							
51	0	51	0	0	Lowland Spruce/Fir		51									
163	162	0	1	1	Marsh						1					
541	541	0	0	0	Northern Hardwood											
9	9	0	0	0	Water											
2,746	1,650	135	962	962	Total Forested Acres	61	74	477	172	20	62	128	87	16		
	60%	5%	35%	35%	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	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	3L: Other wildlife concerns	67	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 48

Year of Entry: 2022

3	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	22	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Unavailable</b>	5D: Unproductive Forest Land	87	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	88	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 48

Year of Entry: 2022

9	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	406	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	52	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer along the lowland and retention							
13	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer along the wetland serves as retention							
14	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 48

Year of Entry: 2022

15	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Obligate deer yard.							
16	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	62	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area with thick tag alder under the aspen							
18	<b>Available</b>	<b>2I: Survey needed</b>	74	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	51	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Buffer for cold water stream and retention for adjacent treatments.							
20	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	62	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Have not pursued access to these stands. If we do get permission this area will need to be survey if there are not PVT surveys.							

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.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
1	6112 - Lowland Aspen	Sawtimber Medium	28.3	78	51-80	N/A	Older stand of aspen that is in decline. The stand looks two aged as some of the aspen has already fallen out of the canopy. It seems to be regenerating itself with the amount of aspen in the understory. Very wet with water at the surface in some areas. Around half of the stand has tag alder in the understory, primarily on the south end of the stand.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>78</td> <td>Log/Pole</td> <td>13</td> <td>78</td> </tr> <tr> <td>Balsam Poplar</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>White Spruce</td> <td>2</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	78	Log/Pole	13	78	Balsam Poplar	10	Pole	8		Balsam Fir	10	Pole	6		White Spruce	2	Log/Pole	10		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Deciduous Shrubs</td> <td>Low</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Aspen (spp.)</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Willow spp.</td> <td>Low</td> <td>&lt; 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Sapling	Deciduous Shrubs	Low	Variable	Tall Shrub	Aspen (spp.)	High	Variable	Sapling	Willow spp.	Low	< 5 feet	Sapling	Tag Alder	Low	5 - 10 feet	Tall Shrub											
Canopy Species	% Cover	Size Class	DBH	Age																																																												
Quaking Aspen	78	Log/Pole	13	78																																																												
Balsam Poplar	10	Pole	8																																																													
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Sub-Canopy Species	Density	Avg. Height	Size																																																													
Balsam Fir	Low	Variable	Sapling																																																													
Deciduous Shrubs	Low	Variable	Tall Shrub																																																													
Aspen (spp.)	High	Variable	Sapling																																																													
Willow spp.	Low	< 5 feet	Sapling																																																													
Tag Alder	Low	5 - 10 feet	Tall Shrub																																																													
2	6120 - Lowland Cedar	Sawtimber Medium	4.7	127	51-80	N/A	Saw this stand from the private to the north. Looks like open canopy cedar that is very wet with tag alder and shrubs in the understory.																																																									
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3	613 - Lowland Mixed Forest	Poletimber Well	7.0	85	81-110	N/A	Island in the marsh looks like mostly fir and aspen.																																																									
4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	5.6	127	Unspecified	N/A	Looks like an island of red maple and paper birch in the wetland. Lots of fir in the understory.																																																									
5	6122 - Black Spruce	Poletimber Well	51.2	90	111-140	N/A	This is a black spruce and tamarack stand. The ground transitions from upland sandy ridges with bracken ferns to bog with leatherleaf. The wet areas generally have smaller DBH's.																																																									
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6	6111 - Lowland Balsam Poplar	Poletimber Medium	52.4	85	1-50	N/A	Larger island of timber in the marsh, no access, OI shows 50 BA of balm, aspen, and fir.																																																									
7	6229 - Mixed lowland shrub	Nonstocked	504.8			No	Very diverse lowland stand. Most of it is lowland shrub with some patches of timber and some scattered aspen, balsam fir, balsam poplar and cedar. Most of the trees are in the eastern portion of the stand, more open to the west.																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>8</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	13.3	88	111-140	N/A	Stand of paper birch and red maple. There are some sandy ridges in the stand along with areas of standing water. Noticeable decline in aspen and balsam fir.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Log	8		Red Maple	Medium	Variable	Sapling
Paper Birch	40	Pole/Log	8	88	Balsam Fir	High	Variable	Sapling
Quaking Aspen	5	Log/Pole	12		Deciduous Shrubs	High	Variable	Tall Shrub
Balsam Fir	10	Pole	6					
White Spruce	10	Pole	6					

<b>9</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	28.3	90	1-50	N/A	Low wet ground with L type in stand. Deciduous canopy with some spruce and fir. Lots of standing water and tag alder.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	28	Pole	7		Balsam Fir	Medium	Variable	Sapling
White Spruce	5	Pole	8		Black Spruce	Low	Variable	Sapling
Black Spruce	5	Pole	7	90	Deciduous Shrubs	Medium	Variable	Tall Shrub
Tamarack	5	Pole	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	2	Pole	8		Black Ash	Low	10 - 20 feet	Sapling
Black Ash	10	Pole	6		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	30	Pole/Log	8	90	Paper Birch	Low	5 - 10 feet	Sapling
Quaking Aspen	10	Pole/Log	8					
Balsam Fir	5	Pole	6					

<b>10</b>	6120 - Lowland Cedar	Sawtimber Well	86.3	127	171-200	N/A	Almost all cedar, many sawlog size, cedar regen on the north along the wetland border. Found some of the old strip cuts and they are pure balsam fir regen. Canopy gaps are filling with Balsam fir. Some areas along the edges are more mixed with aspen and birch.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Log/Pole	12		Balsam Fir	High	Variable	Sapling
Quaking Aspen	5	Log/Pole	13		Northern White Cedar	Medium	Variable	Pole
White Spruce	5	Log/Pole	12		Deciduous Shrubs	Medium	Variable	Tall Shrub
Northern White Cedar	75	Log/Pole	13	127				
Balsam Poplar	5	Log/Pole	10					

<b>11</b>	6119 - Mixed Lowland Deciduous Forest	Sapling Poor	98.1	2	Immature	N/A	Stand was cut in the winter of 2018 as part of Rudyard School Mix. Stand has some stump sprout red maple and paper birch that are starting to grow in. There is also some scattered aspen. Very low wet ground that is going to take a while to regenerate fully. Some of the skid trails have areas of cattails. Lots of cherry coming in along the hardwood edge. Some spruce and fir seedling just starting to poke up.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	15	Sapling	1		White Spruce	Trace	< 5 feet	Seeding
Red Maple	50	Sapling	1	2	Balsam Fir	Trace	< 5 feet	Seeding
Bigtooth Aspen	20	Sapling	1		White Pine	Trace	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
12	6113 - Lowland Maple	Sapling Poor	31.4	2	Immature	N/A	This stand was harvested in the winter of 2018 as part of Rudyard school mix. Lots of stump sprout red maple and some paper birch coming up. A few scattered, advanced balsam fir saplings. Retention strip left along the wetland edge.																																																			
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13	6112 - Lowland Aspen	Sapling Well	47.8	15	Immature	N/A	Stand was cut in 2005. It is very wet and has many areas of lowland shrub but they are hard to type out right now.																																																			
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14	612 - Lowland Coniferous Forest	Poletimber Medium	20.8	80	1-50	N/A	Very wet area of spruce, cedar and fir areas of tag alder in the understory and some patches of pure tag alder.																																																			
15	6239 - Mixed Emergent Wetland	Nonstocked	159.5			No	Mix of lowland shrubs and beaver ponds.																																																			
16	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	21.5	96	51-80	N/A	I saw this stand from across the beaver pond. It is a mix of deciduous trees with a few conifers. This stand is very wet and is a good buffer around the ponds.																																																			
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17	6233 - Wet Meadow	Nonstocked	1.7			No																																																				
18	6119 - Mixed Lowland Deciduous Forest	Sapling Well	21.0	16	Immature	N/A	Stand was cut in 2004. Good mix of red maple and aspen regeneration. Stand is fairly wet with tag alder throughout. A few scattered cedar were left during the harvest. Skid trails were still evident with a few ruts and areas of cattails.																																																			
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<b>19</b>	6112 - Lowland Aspen	Poletimber Well	82.2	85	81-110	N/A	No access and surrounded by wet ground. This stand looks like it is a little bit drier and supports aspen and/or hardwood species.																																																		
<b>20</b>	6111 - Lowland Balsam Poplar	Poletimber Well	40.9	35	51-80	N/A	This stand was cut in 1984. This stand is a mix of diameters from large poles to saplings. There are also some scattered log size aspen. Wet areas have smaller diameters and tag alder. There is L type scattered throughout the stand.																																																		
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<b>21</b>	6120 - Lowland Cedar	Sawtimber Well	61.7	103	111-140	N/A	The north end of the stand contains a decent quality cedar stand. There are areas outside of this that have lower quality and more of a Q type. The area with the decent timber has aspen scattered in it.																																																		
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<b>22</b>	6220 - Alder/willow	Nonstocked	1.0	0		No																																																			
<b>23</b>	6120 - Lowland Cedar	Poletimber Medium	87.8	127	1-50	N/A	This stand looks to have scattered larger diameter conifer trees, likely cedar, with thick balsam fir and tamarack that are smaller diameter. There are also areas of tag alder/lowland shrub scattered in the stand. Looks very wet.																																																		
<b>24</b>	4137 - Aspen, Birch	Poletimber Well	17.4	42	51-80	N/A	Cut in 1978. Stand is mostly in the larger pole size now and is a mix of red maple, aspen and paper birch.																																																		
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25	4111 - S.Maple, Hard Mast Association	Sawtimber Well	540.5	110	81-110	N/A	Last entry the south half of this stand was cut as part of sale 45-012-12-01, cut in 2013-2015 and was marked 110 BA. The north half of the stand was cut as part of sale 45-008-12-01 and was marked to 80 BA. There is fairly good regeneration throughout the stand with a mix of maple with scattered oak. There is a fair amount of ironwood, striped maple and elderberry, especially in the portion that was thinned heavier.																																																																											
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26	330 - Low-Density Trees	Nonstocked	1.8		Immature	No	Little opening that was 13 acres at one time filling in with aspen, oak, maple, cherry.																																																																											
27	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	145.9	78	51-80	N/A	I am not sure about this stand, it was typed as an L type last year of entry but the texture does not make it appear like other shrub stands in the compartment. My guess is it is a large area of black ash and tag alder with larger diameter balsam poplar and quacking aspen. There is balsam fir and scattered cedar. There may be some "upland" ground in the southwest corner of the stand with maple.																																																																											
28	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	172.4	127	111-140	N/A	The best quality timber in this stand is along the east boundary. As you get interior the stand gets wetter, the diameters get smaller and the species switch to more of a mix of tamarack and balsam fir with lowland shrubs.																																																																											
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29	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	41.2	90	81-110	N/A	This stand was set up as part of Rudyard School Mix but was not cut and the sale was turned back in. There was a spot where they started cutting in the north end and the south end but ran into ground that was too soft to operate in. The stand has really nice birch and maple but the ground was too bad for the equipment they had. Softwood is falling out, lots of blowdown.																																																																											
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30	6233 - Wet Meadow	Nonstocked	1.3	0		No																																																																												



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<b>31</b>	6112 - Lowland Aspen	Sapling Well	24.9	28	51-80	N/A	This is likely the last time this stand will be considered a sapling size stand. Really nice aspen and birch with balsam fir mostly in the understory but there were a few patches with fi in the canopy.																																																																					
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<b>32</b>	6229 - Mixed lowland shrub	Nonstocked	3.3			No																																																																						
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<b>33</b>	6112 - Lowland Aspen	Sapling Medium	25.1	2	Immature	N/A	Stand was harvested as part of Rudyard School Mix in the winter of 2018. It is regenerating quite nicely. There are a few stump sprout red maples and scattered larger sapling size balsam fir.																																																																					
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<b>34</b>	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	28.6	50	111-140	N/A	Wildlife strip cut in 1970. The stand is mostly a red maple mix with yellow birch, cherry and oak. There are some areas that are wet with ponded timber. This stand is the transition between upland and lowland.																																																																					
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<b>35</b>	612 - Lowland Coniferous Forest	Poletimber Well	14.8	50	51-80	N/A	Island of timber in the middle of the lowland shrub complex. From the photo it looks like it is mostly fir with scattered aspen.																																																																					
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<b>36</b>	613 - Lowland Mixed Forest	Sapling Poor	17.8	78	1-50	N/A	Stand appears to be a mix of conifer and aspen/ash with lots of tag alder in the understory.																																																																					
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<b>37</b>	613 - Lowland Mixed Forest	Poletimber Well	52.8	67	111-140	N/A																																																																						
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<b>38</b>	500 - Water	Nonstocked	8.8		Unspecified	No	North Branch of the Pine river and associated lowland shrub.																																																																					
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<b>39</b>	611 - Lowland Deciduous Forest	Sawtimber Well	59.3	71	111-140	N/A																																																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	612 - Lowland Coniferous Forest	Sapling Medium	69.0	127	1-50	N/A	The interior portion of this swamp is very wet and supports only trees of small diameter and not growing very thick. As I tried to walk out to the interior of this compartment it switched from cedar along the edges to balsam fir and tamarack with some scattered cedar saps.
41	6229 - Mixed lowland shrub	Nonstocked	14.3		Unspecified	No	
42	6229 - Mixed lowland shrub	Nonstocked	2.9	0	Unspecified	No	
43	6229 - Mixed lowland shrub	Nonstocked	38.7		Unspecified	No	I am going to call this an L type but there may be enough of a tree canopy to be forested. Form the imagery it appears to be a lowland low density tree stand with tag alder and fir in the understory.
44	6220 - Alder/willow	Nonstocked	3.1	0	Unspecified	No	
45	6112 - Lowland Aspen	Sawtimber Well	5.3	127	81-110	N/A	Looks like an island of aspen in the middle of the swamp. Might be slightly higher ground than the surrounding area.