



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41046

Entry Year 2023

Acreage: 2,821

County Schoolcraft

Management Area: Seney Manistique Swamp

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**Stand Examiner:** Tori Irving

## Legal Description:

T42N R16W Sec 6,7,17,18,19 & 20

## Identified Planning Goals:

The main goal in this compartment is to conduct multiple resource management for the good of the citizens of the State of Michigan.

## Soil and topography:

The soils in this compartment are mainly comprised of Wallace Sands and Carbondale. The lands east of the Big Ditch are comprised of large marshes with sand ridge islands of pine. The lands west of the Big Ditch are low organic soils supporting mainly cedar.

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

The Hiawatha National Forest borders on the west and other state land on the east. Within the compartment there are a few isolated hunting forties. One of the forties was acquired by the State recently through the Forest Legacy Fund. The stands along the north shore of Indian Lake are moderately used by duck hunters. Land Use is limited due to poor access to the compartment.

## Unique Natural Features:

This compartment is a mix of marsh and upland ridges as well as a large block of quality cedar. Bald eagles are frequent on the north end of Indian Lake.

## Archeological, Historical, and Cultural Features:

None.

## Special Management Designations or Considerations:

The entire compartment is within the Seney Manistique Swamp Management Area. The land west of the Big Ditch is part of the Big Springs Deeryard.

## Watershed and Fisheries Considerations:

This compartment contains the Indian River, Dead Creek, and an unnamed 11-acre inland lake. This compartment also borders the northern shoreland of Indian Lake.

The Indian River is designated a Type 1 trout stream less than 50' width and has a predicted mean July temperature of 66.2 °F (cold/cool stream). The Indian River also contains a remnant population of the State Threatened Lake Sturgeon. A 300' buffer is recommended for the Indian River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Dead Creek has split designations in this compartment. Upstream of the following GPS location (46.059367 -86.363614) Dead Creek is designated a Type 1 trout stream less than 50' width and the predicted mean July temperature is 64.6 °F (cold stream). Upstream of this location, A 300' buffer is recommended for Dead Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices. Downstream of this location (46.059367 -86.363614), Dead Creek is a non-designated stream less than 50' width. 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

For the unnamed, 11-acre inland lake located just east of Dead Creek, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Indian Lake is an 8,000-acre inland lake with remnant populations of State Threatened species including Lake Sturgeon and Cisco. Recent high-water levels have resulted in erosion requiring several armoring projects to be permitted around the perimeter of Indian Lake. To reduce erosion and eliminate the need for shoreline modification, 100' plus 5' per 1% increase in slope; buffers are recommended for Indian Lake to protect shoreline and shoreland areas in accordance with Best Management Practices.

### **Wildlife Habitat Considerations:**

: This compartment lies within the Seney Sand Lake Plain ecological sub-subsection. The growing season in this area is less than 100 days with extreme minimum winter temperatures of -46 F. Annual snowfall in this area averages between 120 and 140 inches. General Land Office (GLO) Surveyor notes for the compartment did not contain the volume of information as was found in other areas. However, the notes that are available show jack pine, aspen, white birch and red pine occurred on the uplands. Ash, alder, cedar, black spruce, and tamarack occurred in lowland forest. The notes also discuss the presence of open grassy knolls that would make good grazing meadows. Windthrow and wildfire and beaver ponding likely played major roles in the ecology of the area. Given the scant GLO notes, it is difficult to assess the amount of change between the original survey and present conditions. However, the building of Big Ditch undoubtedly altered water tables thereby impacting the vegetation. Potentially, areas that were once open are now forested as a result of the water table changes. The southern portion of this compartment is part of the Big Springs deeryard. The wildlife habitat objectives in that area are to maintain the closed canopy coniferous forest. Other habitat objectives include protecting the marsh complex ecosystem, promoting species, age and structural diversity within and between conifer stands, and protecting the Indian Lake watershed. Bald eagle (Michigan threatened), sharp-tailed grouse (Michigan special concern) and Gray wolf (Federal and Michigan endangered) activity has been recorded within this compartment. Other wildlife species of interest include spring peeper, great blue heron, deer mouse, and porcupine.

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

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. The nearest active mineral production is less than three miles to the east (in Sec 14) where small surface mines produce aggregate from glacial drift and/or bedrock limestone/dolostone, which is at/near the surface (as of 2019; more recent imagery suggests the at least some of these sites are no longer active). Bedrock may be too deep beneath the compartment to have significant economic value, and wetlands would inhibit surface mining in the compartment. There is no other known mineral potential within the compartment, and no current mineral leasing activity exists in the area.

### **Vehicle Access:**

Vehicle access is extremely limited, none of the private land has vehicle access and one is strictly accessed by boat. The few two tracks there are on the east side of the compartment are accessed from the north off of M-94 on the Smith Creek Road.

### **Survey Needs:**

None

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

The West Shore Campground of the Indian Lake State Park is south west of the compartment as well as Palms Book State Park home of Kitch-iti-ki-pi (The Big Spring), a popular tourist attraction. Indian Lake offers recreational opportunities and the Big Ditch is used frequently by canoers. Due to poor vehicle access inland the compartment offers good secluded hunting opportunities

### **Fire Protection:**

Fire response to this compartment will be slow due to the distance from the office, the equipment needed will likely be marsh type units due to the nature of the terrain.

### **Additional Compartment Information:**

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

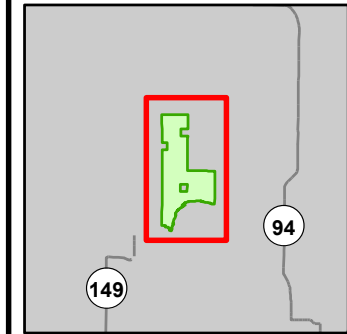
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

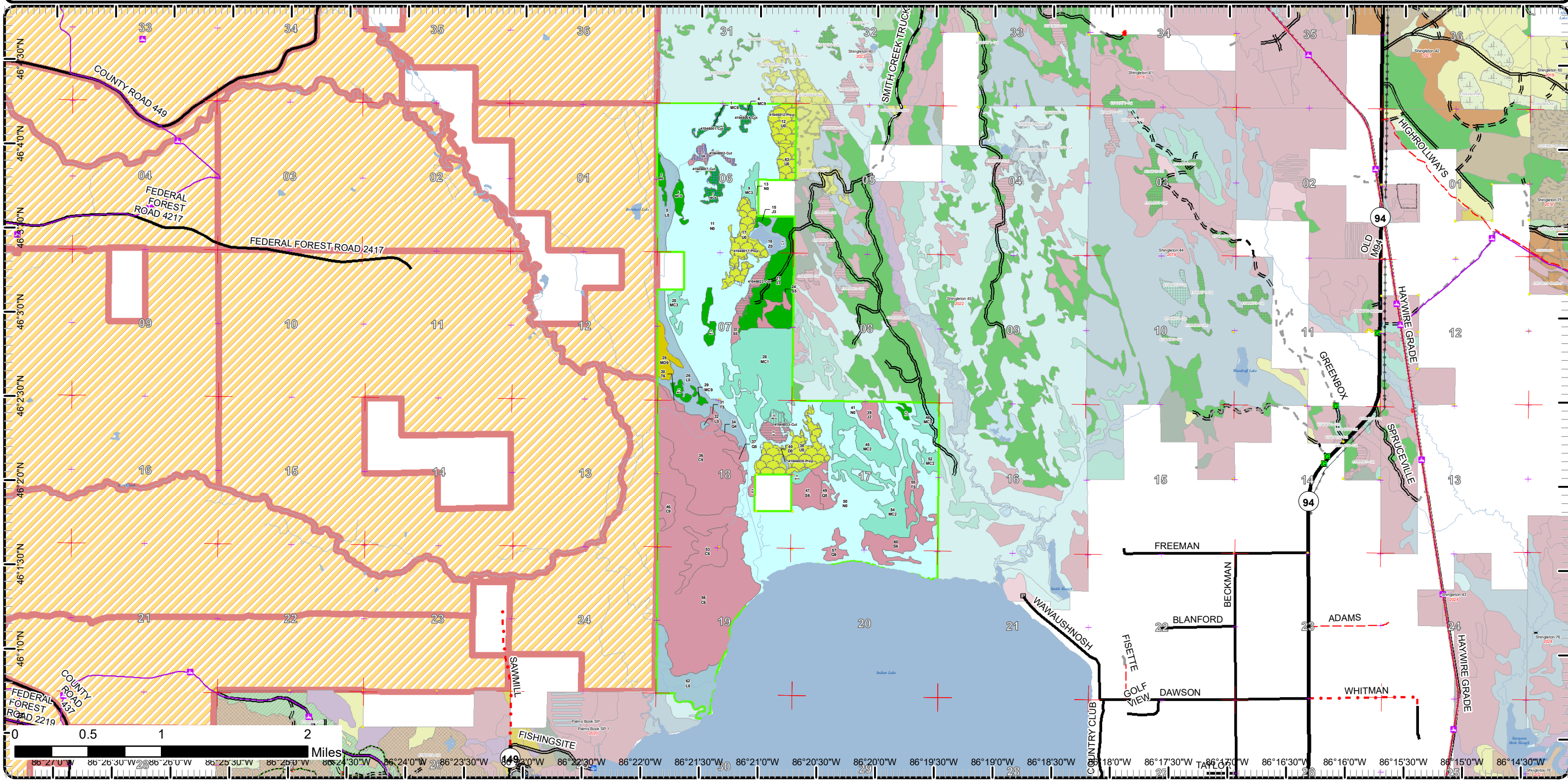
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 46  
 T42N, R16W, Sec: 6, 7, 17-20, 30  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Seney Manistique Swamp  
 YOE: 2023  
 Acres: 2821 GIS Calculated  
 Examiner: Tori Irving  
 Map Revised: 1/28/2022  
 Map Phase: Post Review

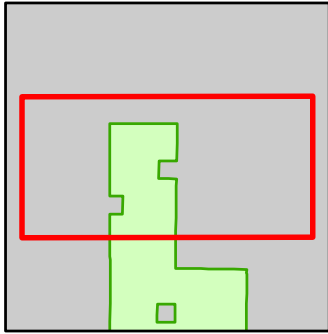


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- - - Private - Dirt / Gravel Road
- Boating Access Site
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- Site Prep
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

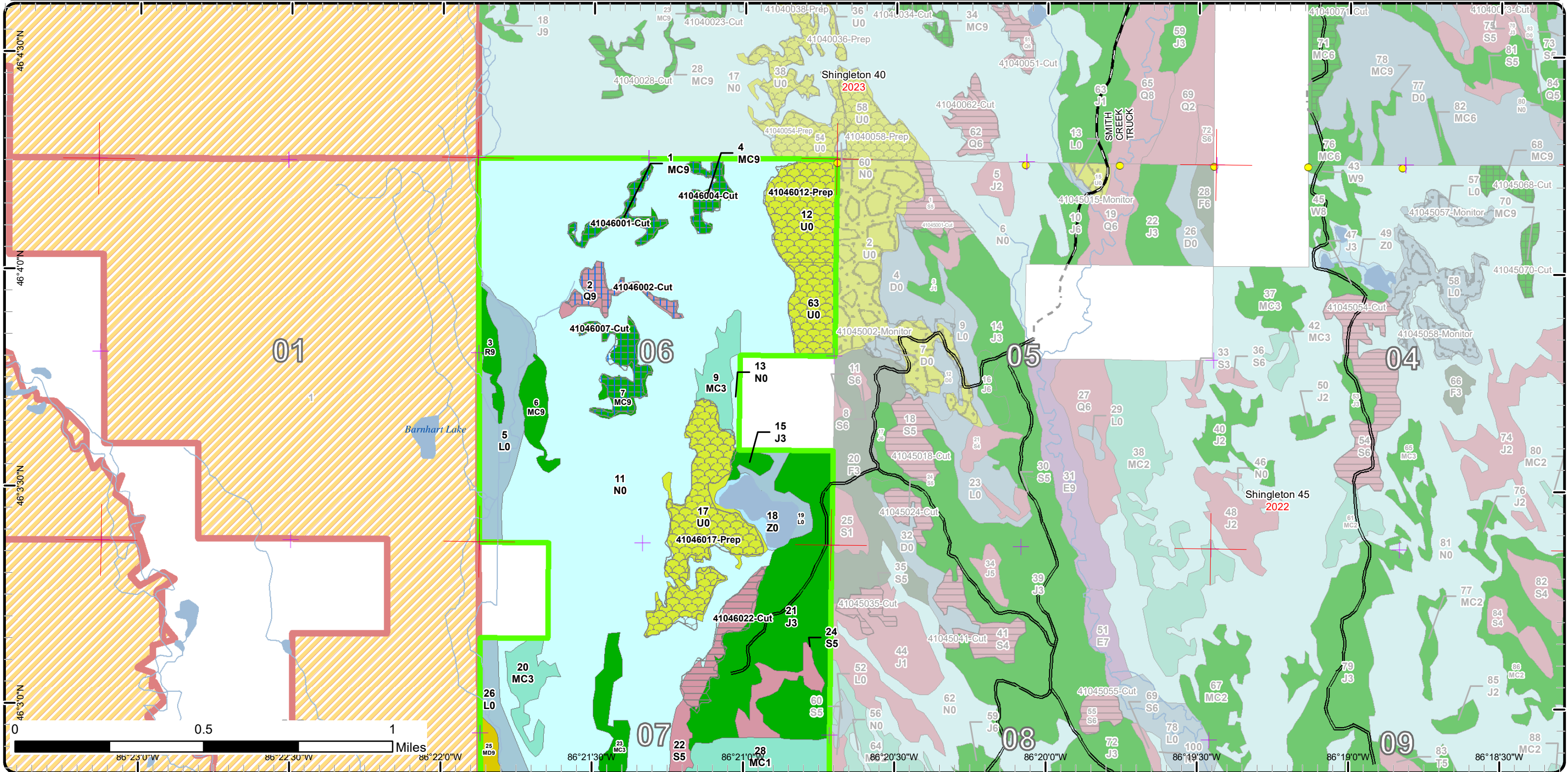


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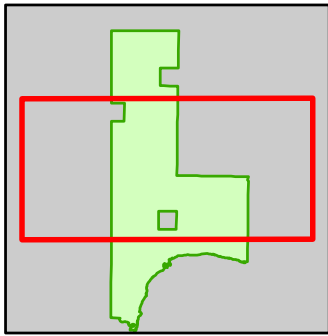


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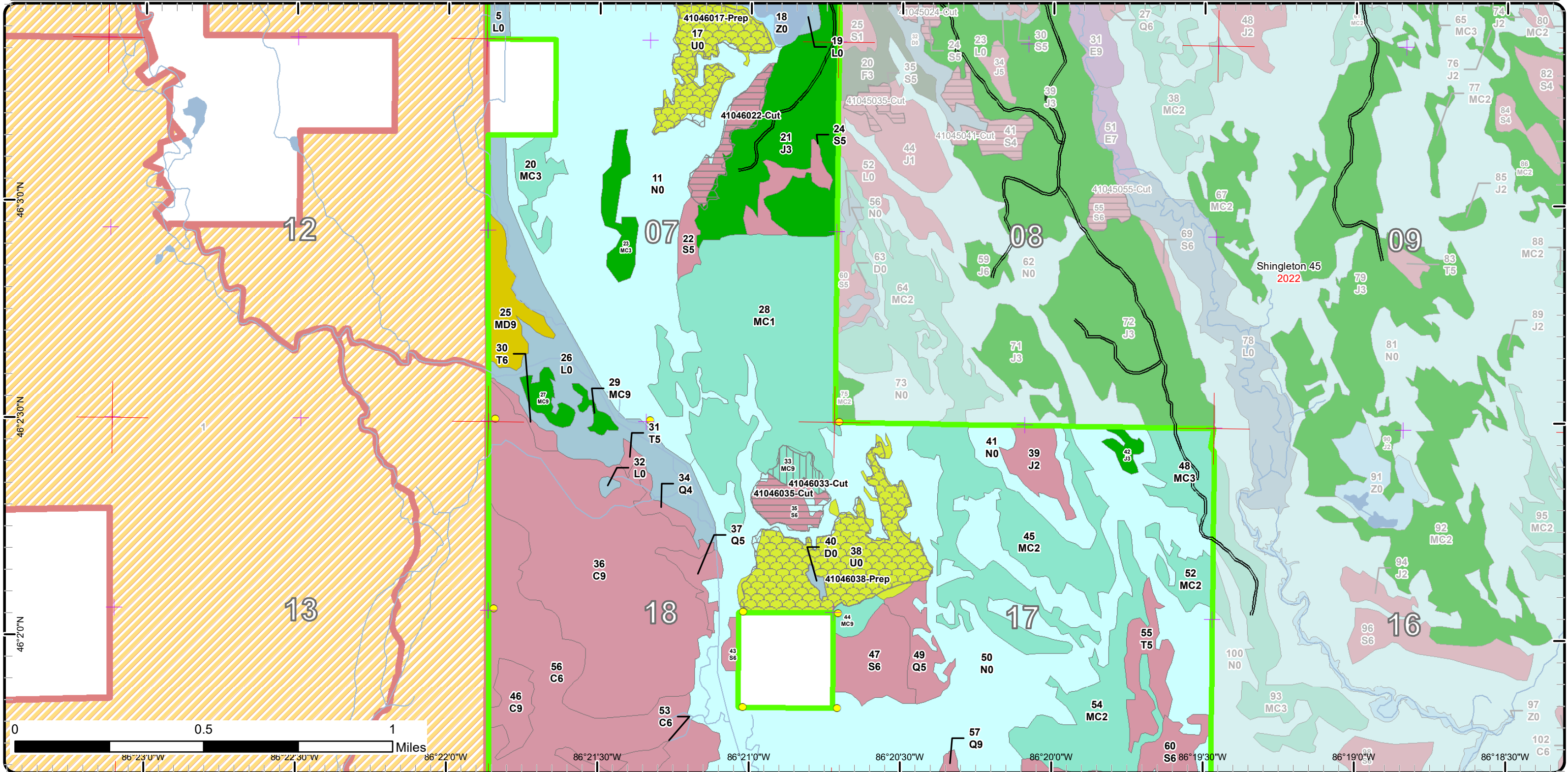


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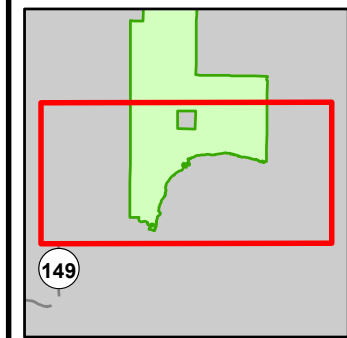


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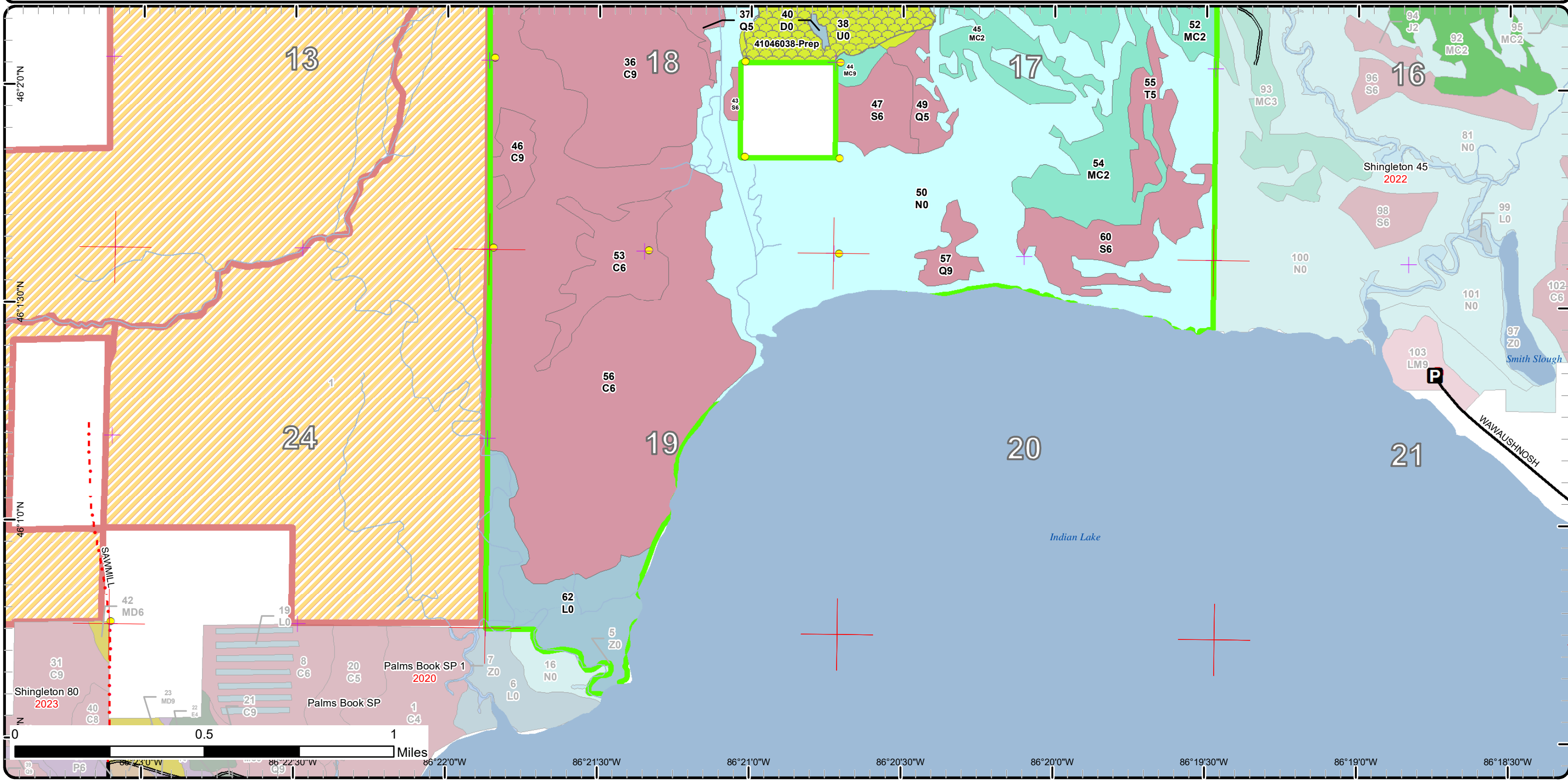


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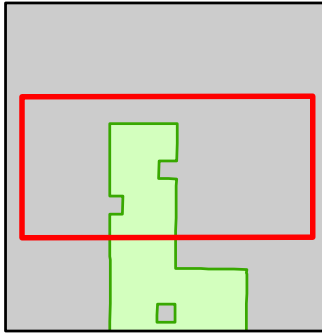


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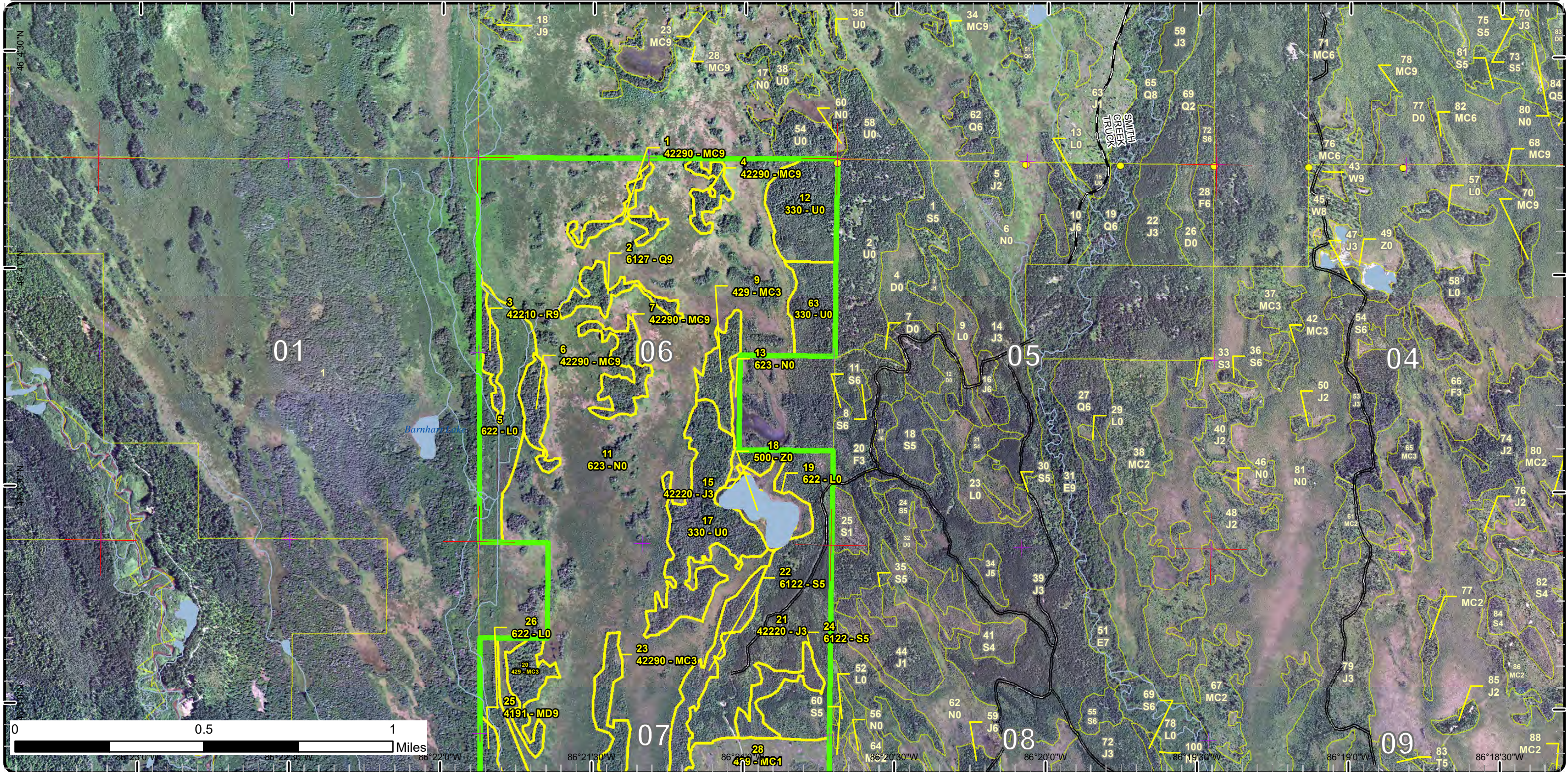


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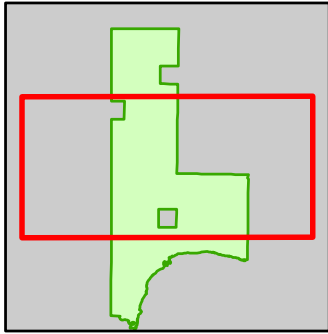
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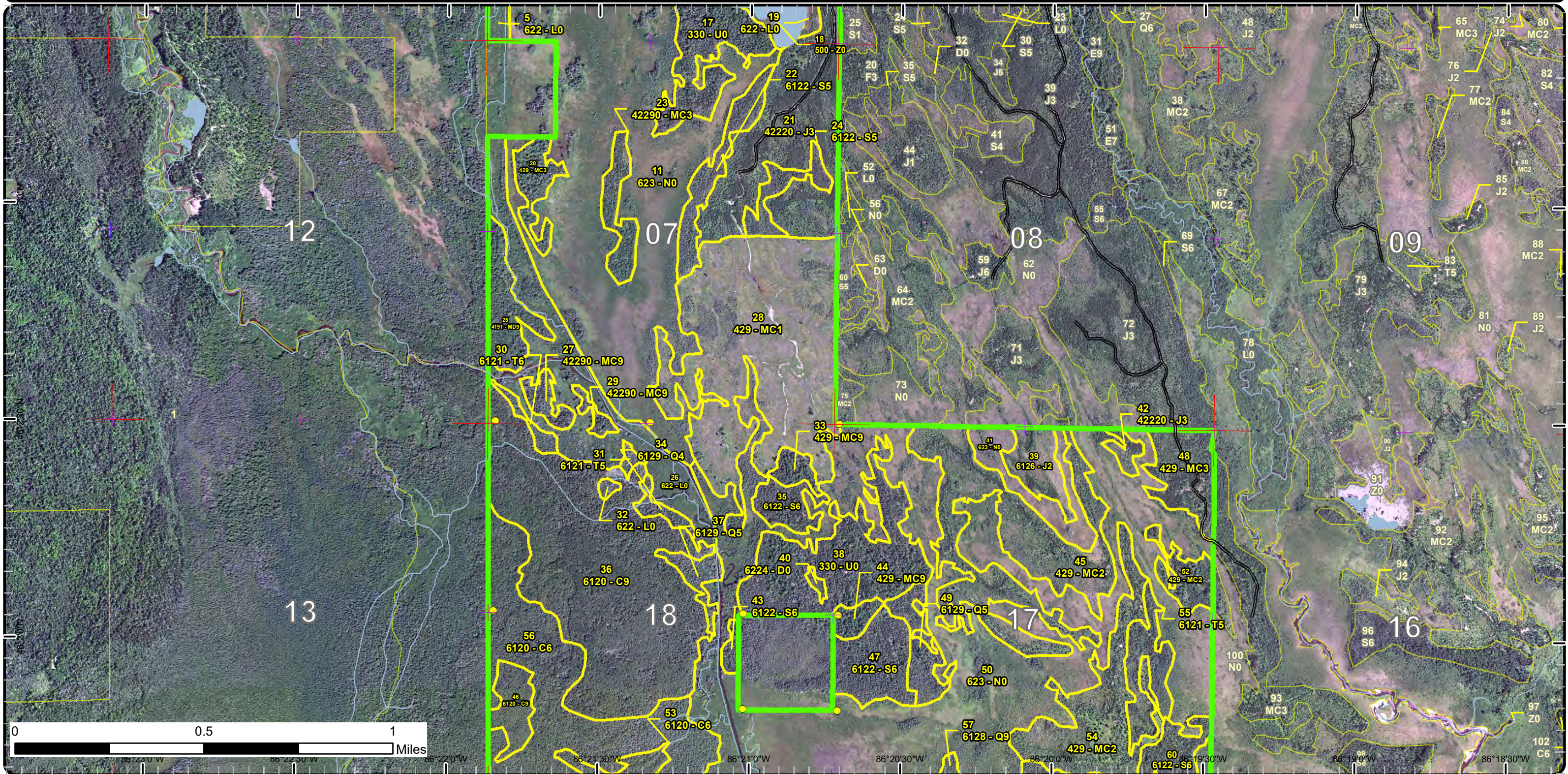


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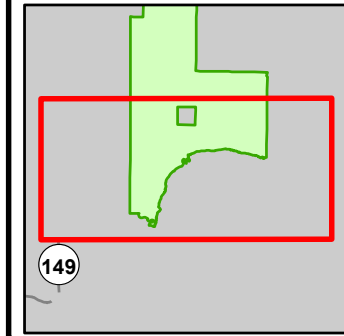


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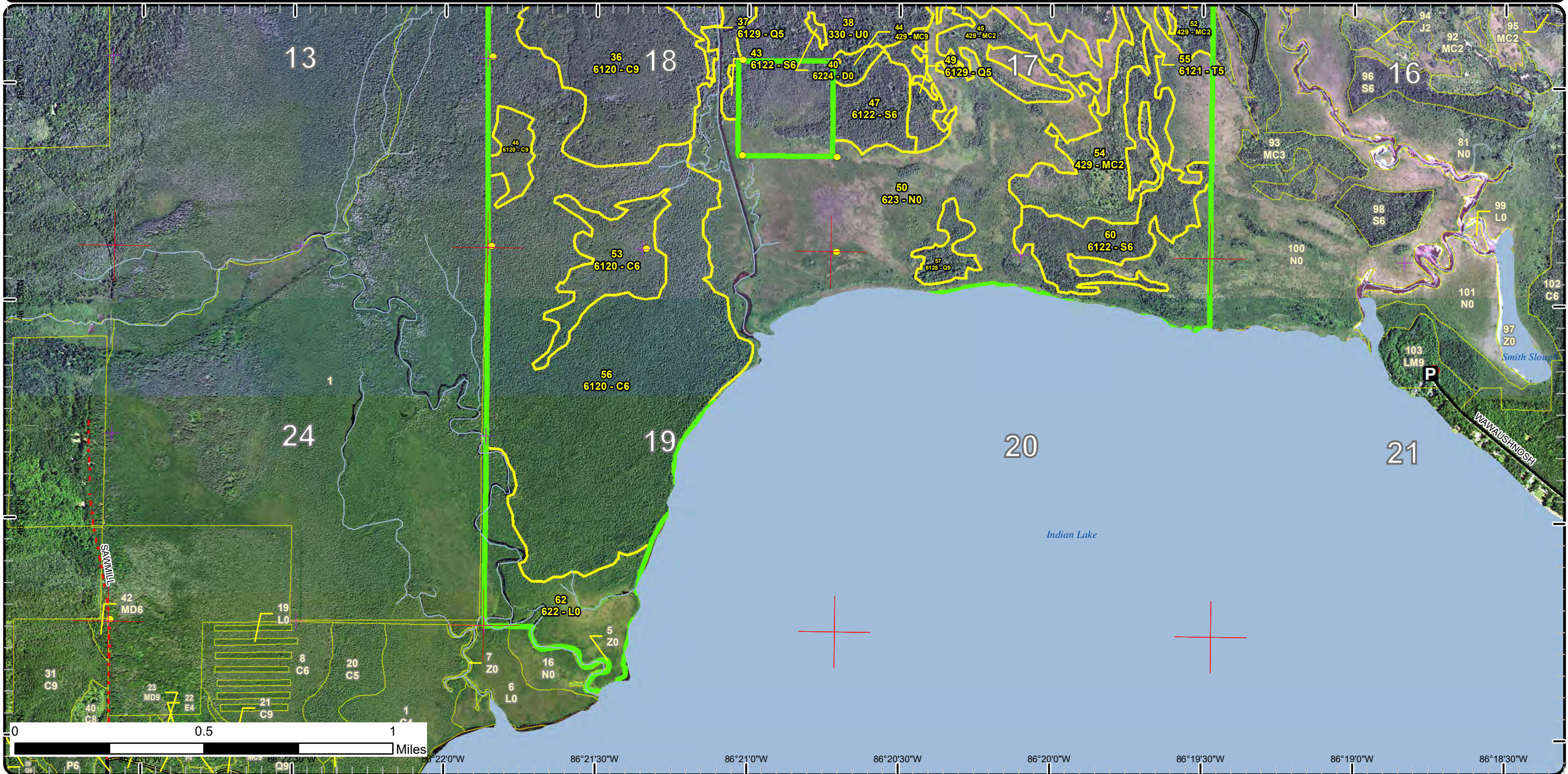


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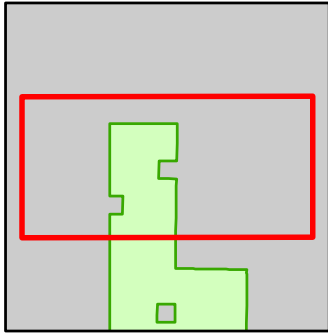


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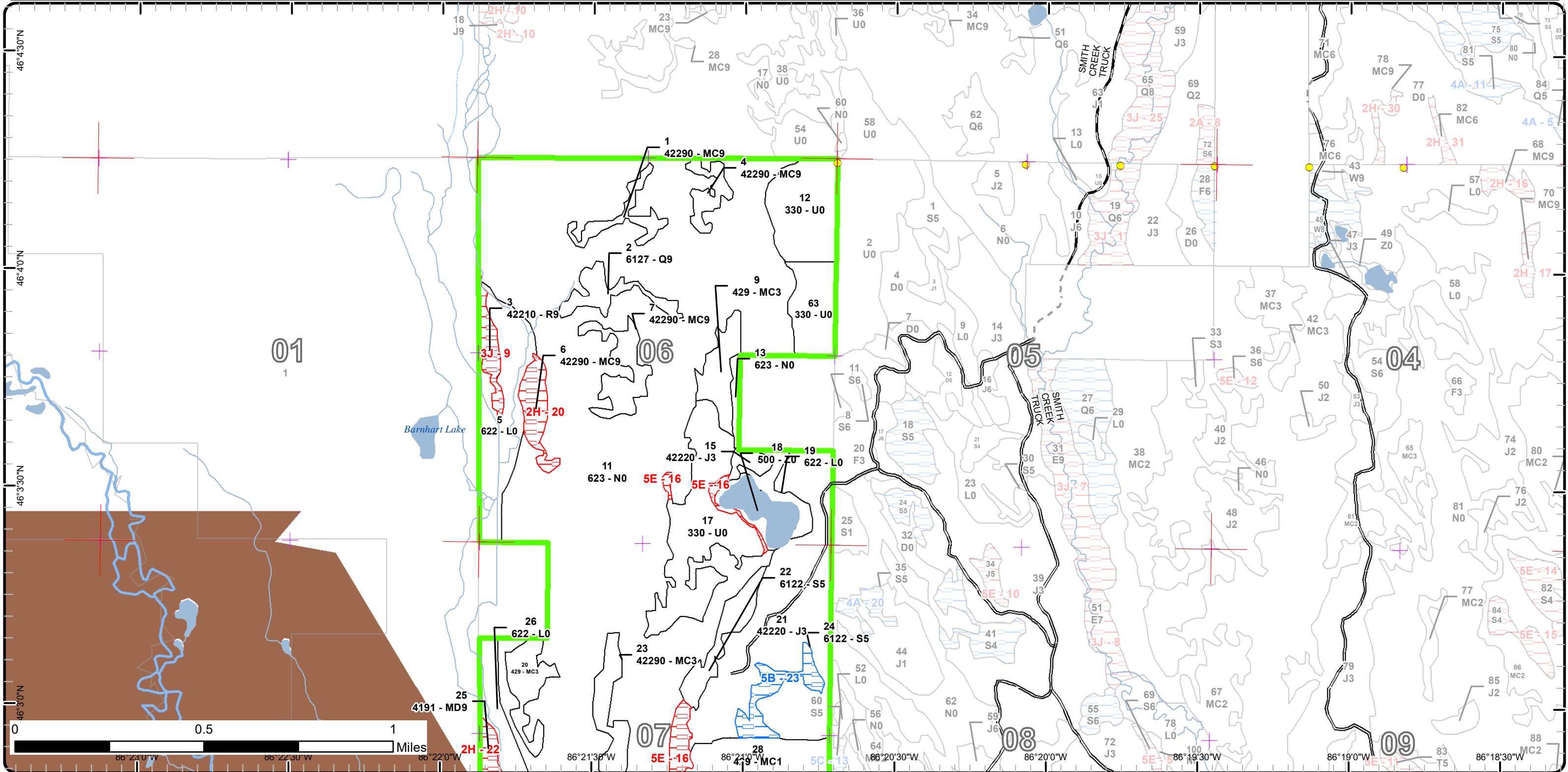


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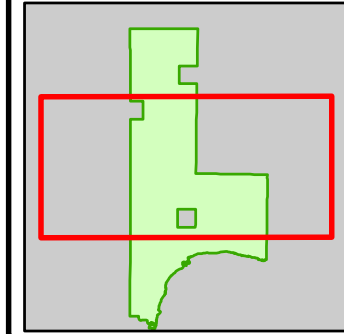


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- Available w/ Constraints
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Wild & Scenic Streams (USFS Lands)
- Cold Water Streams
- Deer Winter Range

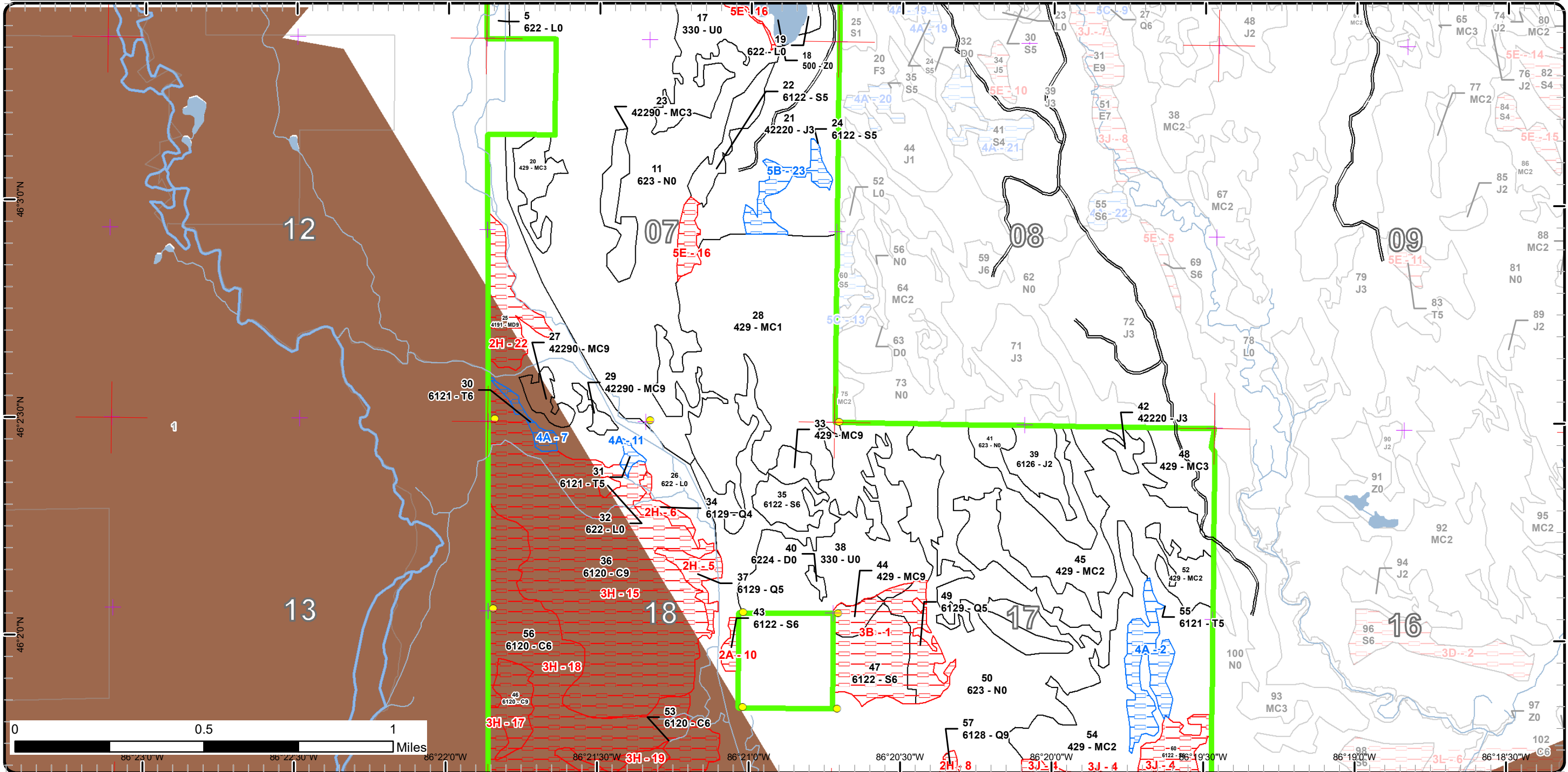


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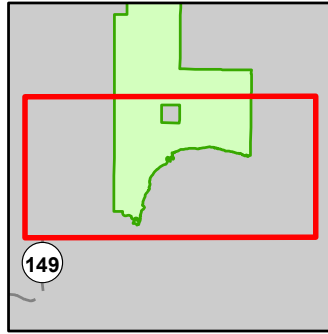


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  - Deer Winter Range
- 4A: No Markets Available for these Forest Products
  - 5B: Maintain for regeneration purposes
  - 2A: Adjacent landowner denied access

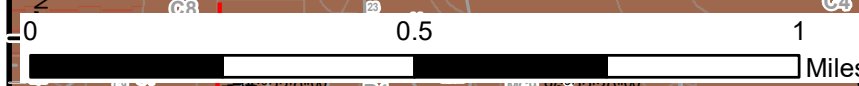
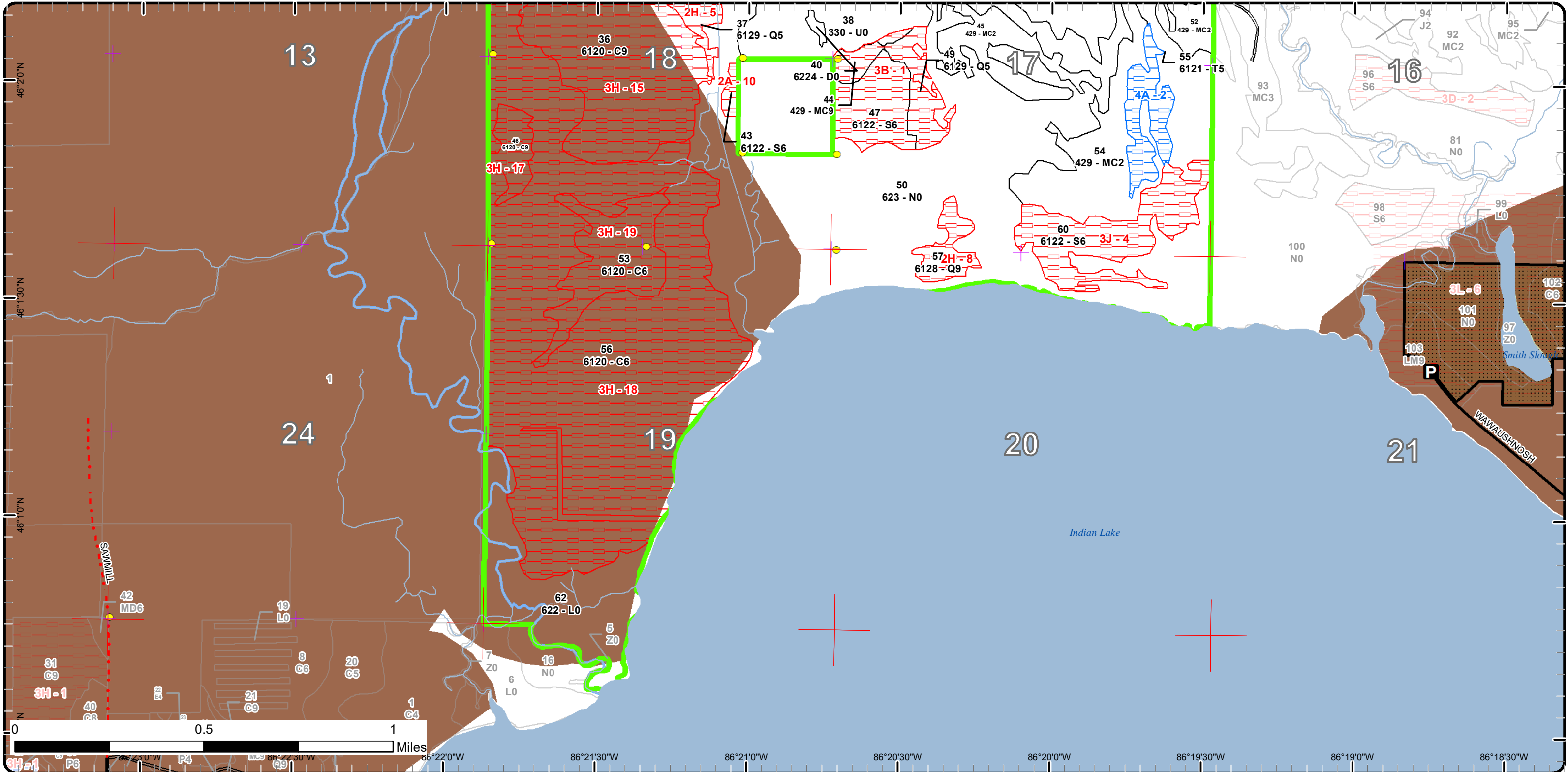


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- Stand Boundaries
- SCA
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- Wild & Scenic Rivers (USFS Lands)
- Cold Water Streams
- Deer Winter Range
- Recreational/Scenic Value Area



3H-1 3H-15 3H-17 3H-18 3H-19 2A-10 2H-5 3B-1 3D-2 3J-4 3L-6

Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	606	0	0	0	0	606
Jack Pine	0	0	0	19	97	0	0	0	0	0	0	0	0	0	0	0	0	0	116
Low-Density Trees	163	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	163
Lowland Conifers	0	0	0	0	0	0	0	0	0	25	0	13	12	0	0	0	0	0	49
Lowland Shrub	191	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	191
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	11	105	0	0	0	0	0	0	0	0	116
Marsh	1083	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1083
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	20
Natural Mixed Pines	0	0	0	0	13	0	0	15	0	10	23	0	0	0	0	0	0	0	61
Red Pine	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Tamarack	0	0	0	0	0	0	0	0	0	20	0	6	0	0	0	0	0	0	26
Treed Bog	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Upland Conifers	0	156	0	177	25	0	0	0	0	6	6	0	0	0	0	0	0	0	370
Water	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
<b>Total</b>	<b>1450</b>	<b>156</b>	<b>0</b>	<b>196</b>	<b>135</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>11</b>	<b>186</b>	<b>36</b>	<b>19</b>	<b>618</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2821</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 46

Total Compartment Acres: 2,821

Commercial Harvest - 59  
 Harvests with Site Condition - 0  
 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 Conifers	0	0	0	7	0	0	0	0	0	7
Lowland Spruce/Fir	27	0	0	0	0	0	0	0	0	27
Natural Mixed Pines	0	0	0	18	0	0	0	0	0	18
Upland Conifers	0	0	0	0	6	0	0	0	0	6
<b>Total</b>	<b>27</b>	<b>0</b>	<b>0</b>	<b>26</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>59</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	59	155	0	0	0	0	0	0	0	214
Next Step	0	7	0	0	0	0	214	0	0	221
<b>Total</b>	<b>59</b>	<b>162</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>214</b>	<b>0</b>	<b>0</b>	<b>435</b>



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

<b>1</b>	<b>41046001-Cut</b>	6.5	42290 - Natural Mixed Pine	Sawtimber Well	76	111-140	Harvest	Seed Tree with Retention	42290 - Natural Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Harvest stand as a seed tree cut leaving red and white pine as well as some other trees along edges excluded by the red line. Try and</p> <p><u>Specs:</u> scarify the stand if possible.</p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed conifer and deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u> Old next step comments: Scarify if possible, acceptable regen is a mix of pine species. Examine regen at the next oi cycle.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2014</p>											
<b>2</b>	<b>41046002-Cut</b>	7.4	6127 - Lowland Pine	Sawtimber Well	90	111-140	Harvest	Seed Tree with Retention	6127 - Lowland Pine	Two-Aged	No
<p><u>Prescription</u> Stand is a mix of upland and lowland, cut as seed tree cut leaving red and white pine for seed, also leave retention along creek con west</p> <p><u>Specs:</u> side.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed conifer and deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u> Old next step comments: Acceptable regen is a mix of teh current species. Examine regen at the next oi cycle.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2014</p>											
<b>4</b>	<b>41046004-Cut</b>	6.5	42290 - Natural Mixed Pine	Sawtimber Well	76	141-170	Harvest	Seed Tree with Retention	42290 - Natural Mixed Pine	Two-Aged	No
<p><u>Prescription</u> Harvest as a seed tree cut leaving red and white pine. If possible scarify.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed conifer and deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u> Old next step comments: Scarify if possible, acceptable regen is a mix of the current species. Examine regen at the next oi cycle.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2014</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
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7	41046007-Cut	11.7	42290 - Natural Mixed Pine	Sawtimber Well	105	141-170	Harvest	Seed Tree with Retention	42290 - Natural Mixed Pine	Two-Aged	No
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Prescription Harvest stand as a seed tree with reserves leaving red and white pine for seed, in addition leave some retention along edges.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixed conifer and deciduous

Regen:

Other Old next step comments: Acceptable regeneration is a mix of teh current pine species. Examine regen at the next oi cycle.

Comment:

Site Condition

Proposed Start Date: 10/1 /2014

12	41046012-Prep	47.2	330 - Low-Density Trees	Nonstocked	0	Unspec ified	SitePrep	Scarification	4222 - Natural Jack Pine	Even-Aged	No
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Prescription scarify

Specs:

Next Step ; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable mixed conifer and deciduous

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

17	41046017-Prep	45.7	330 - Low-Density Trees	Nonstocked	0		SitePrep	Scarification	42290 - Natural Mixed Pine	Even-Aged	No
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Prescription scarify

Specs:

Next Step ; Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable mixed conifer and deciduous

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

22	41046022-Cut	13.5	6122 - Black Spruce	Poletimber Medium	90	Unspec ified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Stand is an un-cut fringe to the Big Ditch Sale cut in th late 80's. The north end has some decent merchantable spruce that could be cut, there is a lot of windthrow. Clear-cut stand and exclude really small spruce on south end as retention if needed.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixed conifer and deciduous.

Regen:

Other Old next step comments: None, acceptable regen is a mix of current species mainly spruce. Examine regeneration at the next oi cycle.

Comment:

Site Condition

Proposed Start Date: 10/1 /2014



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
33	41046033-Cut	6.2	429 - Mixed Upland Conifers	Sawtimber Well	96	51-80	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Two-Aged	No
<p><u>Prescription</u> Stand is a ridge which has a heavy balsam understory. Stand is 2-3 aged with mature pine. Cut all species except hemlock and mark the white pine down to a shelterwood.</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> mixed conifer and deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u> Old next step comments: Acceptable regen is a mix of the current species. Examine regen during the next oi cycle.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2014</p>											
35	41046035-Cut	13.8	6122 - Black Spruce	Poletimber Well	93	Unspec ified	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Stand is mature and should be cut. Retention should be patches excluded with red line.</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> mixed conifer and deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u> Old next step comments: None, acceptable regen is any of the current mix, mainly black spruce. Examine regen at the next oi cycle.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2014</p>											
38	41046038- Prep	62.1	330 - Low-Density Trees	Nonstocked	0		SitePrep	Scarification	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> scarification</p> <p><u>Specs:</u></p> <p><u>Next Step</u> ; Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed conifer and deciduous</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Total Treatment 220.6  
Acreage Proposed:

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 46

Year of Entry: 2023

### Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
606	5	0	601

### Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions								
					4A	5B	2A	2H	3B	3H	3J	5E	
606	5	0	601	<b>Cedar</b>				0		601			
116	116	0	0	<b>Jack Pine</b>									
163	159	0	4	<b>Low-Density Trees</b>					1				3
48	10	0	39	<b>Lowland Conifers</b>				24	14				
191	191	0	0	<b>Lowland Shrub</b>				0			0		
116	24	11	82	<b>Lowland Spruce/Fir</b>		11	3		26		46	6	
1083	1083	0	0	<b>Marsh</b>				0			0		
20	0	0	20	<b>Mixed Upland Deciduous</b>				20					
61	51	0	10	<b>Natural Mixed Pines</b>				10					
7	0	0	7	<b>Red Pine</b>							7		
25	0	25	0	<b>Tamarack</b>	25								
1	1	0	0	<b>Treed Bog</b>									
370	364	0	6	<b>Upland Conifers</b>					6				
12	12	0	0	<b>Water</b>									
2,821	2,016	36	769	<b>Total Forested Acres</b>	25	11	3	54	47	601	54	9	
	71%	1%	27%	<b>Relative Percent</b>									

*\*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	3B: Threatened, endangered, and special concern species	48	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Available	4A: No Markets Available for these Forest Products	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 46

Year of Entry: 2023

4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	46	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 46

Year of Entry: 2023

10	<b>Unavailable</b>	<b>2A: Adjacent landowner denied access</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Available</b>	<b>4A: No Markets Available for these Forest Products</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	175	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	372	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 46

Year of Entry: 2023

19	<b>Unavailable</b>	<b>3H: Deer Wintering Area - habitat is incompatible with harvest at this time</b>	42	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
23	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	11	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand is the only remaining mature spruce within the compartment. Retain until adjacent harvested stands reach acceptable regeneration levels.							

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	Wild and Scenic Rivers	Wild and Scenic Rivers are established under authority of the National Wild and Scenic Rivers Act, Public Law 90-542, as amended. Each Wild and Scenic River has a river specific Federal management plan, and State agencies may enter into written cooperative agreements with the administering Federal agency for the management of Wild and Scenic Rivers that are upon State-owned lands. There are 18 miles of Federal designated Wild and Scenic Rivers that are located within the State Forest.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	42290 - Natural Mixed Pine	Sawtimber Well	7.6	76	111-140	N/A	Stand is currently under contract.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	2	Pole	8		Red Maple	Low	< 5 feet	Sapling
White Pine	10	Log/XLog/Pole	14		Black Spruce	Medium	Variable	Sapling
Red Maple	5	Pole/Log	9		White Pine	Low	< 5 feet	Sapling
Red Pine	43	Log/XLog/Pole	12	76	Tag Alder	Low	< 5 feet	Tall Shrub
Paper Birch	5	Pole	9					
Jack Pine	35	Pole/Log	10					

2	6127 - Lowland Pine	Sawtimber Well	9.6	90	111-140	N/A	Stand is currently under contract.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	2	Pole	7		Red Maple	Medium	5 - 10 feet	Sapling
Red Maple	14	Pole/Log	9		Black Spruce	Medium	Variable	Sapling
White Pine	15	Log/XLog/Pole	18		Tag Alder	Medium	< 5 feet	Tall Shrub
Black Spruce	2	Pole	8					
Jack Pine	5	Pole/Log	10					
Paper Birch	2	Pole	8					
Red Pine	60	Log/XLog/Pole	14	90				

3	42210 - Natural Red Pine	Sawtimber Well	7.4	101	81-110	N/A	
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4	42290 - Natural Mixed Pine	Sawtimber Well	7.1	76	141-170	N/A	Stand is currently under contract.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	7	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
Jack Pine	26	Log/Pole	10	94	White Pine	Low	< 5 feet	Sapling
White Pine	15	Log/XLog/Pole	15		Tag Alder	Medium	< 5 feet	Tall Shrub
Red Maple	7	Pole/Log	9		Black Spruce	Medium	Variable	Sapling
Red Pine	43	Log/Pole/XLog	12	76				
Black Spruce	2	Pole	8					

5	622 - Lowland Shrub	Nonstocked	35.5		Unspecified	No	
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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>6</b>	42290 - Natural Mixed Pine	Sawtimber Well	9.8	101	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Balsam Fir		2	Pole	8		Balsam Fir	
Red Pine		59	Log/XLog/Pole	16	101	High	
Red Maple		2	Pole	9		Black Spruce	
Tamarack		2	Pole	8		Medium	
Paper Birch		4	Pole	8		Variable	
White Pine		15	Log/XLog/Pole	16		Sapling	
Black Spruce		5	Pole	8		White Pine	
Jack Pine		11	Log/Pole	10		Medium	
						< 5 feet	
						Sapling	

<b>7</b>	42290 - Natural Mixed Pine	Sawtimber Well	13.3	105	141-170	N/A	Stand is currently under contract.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Pine		29	Log/XLog/Pole	14		Black Spruce	
Red Pine		58	Log/XLog/Pole	14	105	Medium	
Black Spruce		2	Pole	7		Variable	
Red Maple		7	Pole/Log	10		< 5 feet	
Jack Pine		4	Pole/Log	9		Sapling	
						White Pine	
						Low	
						< 5 feet	
						Sapling	
						Tag Alder	
						Medium	
						< 5 feet	
						Tall Shrub	

<b>9</b>	429 - Mixed Upland Conifers	Sapling Well	12.4	35	1-50	N/A	Stand was cut as part of the Big Ditch Sale.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
White Pine		15	Sapling	3		Tag Alder	
Balsam Fir		15	Sapling	3		Low	
Red Maple		5	Sapling	3		< 5 feet	
Jack Pine		40	Sapling	3	35	Tall Shrub	
Black Spruce		25	Sapling	3		Pin Cherry	
						Low	
						< 5 feet	
						Tall Shrub	

<b>11</b>	623 - Emergent Wetland	Nonstocked	564.7		Unspecified	No	
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<b>12</b>	330 - Low-Density Trees	Nonstocked	29.0	0	Unspecified	4222 - Natural Jack Pine	Stand was cut as part of Adam's Ridges and the Tom Sale.
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<b>13</b>	623 - Emergent Wetland	Nonstocked	3.1		Unspecified	No	
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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>15</b>	42220 - Natural Jack Pine	Sapling Well	3.8	33	Unspecified	N/A																															
<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>Black Spruce</td> <td>22</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>White Pine</td> <td>4</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>2</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>70</td> <td>Sapling/Pole</td> <td>4</td> <td>33</td> </tr> <tr> <td>Tamarack</td> <td>2</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	22	Sapling	2		White Pine	4	Sapling	3		Paper Birch	2	Pole	9		Jack Pine	70	Sapling/Pole	4	33	Tamarack	2	Sapling	2	
Canopy Species	% Cover	Size Class	DBH	Age																																	
Black Spruce	22	Sapling	2																																		
White Pine	4	Sapling	3																																		
Paper Birch	2	Pole	9																																		
Jack Pine	70	Sapling/Pole	4	33																																	
Tamarack	2	Sapling	2																																		

<b>17</b>	330 - Low-Density Trees	Nonstocked	49.7	0		4222 - Natural Jack Pine	
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<b>18</b>	500 - Water	Nonstocked	12.4		Unspecified	No	
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<b>19</b>	622 - Lowland Shrub	Nonstocked	8.7		Unspecified	No	
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<b>20</b>	429 - Mixed Upland Conifers	Sapling Well	12.8	33	81-110	N/A	Stand was cut as part of the Big Ditch Sale
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Sapling/Pole	2		Tag Alder	Low	< 5 feet	Tall Shrub
Red Pine	14	Log/XLog	14		Pin Cherry	Low	< 5 feet	Tall Shrub
Tamarack	2	Sapling/Pole	4					
Red Pine	15	Sapling	4					
Balsam Fir	10	Sapling/Pole	3					
White Pine	20	Sapling	3	33				
White Pine	14	Log/XLog	14					
Jack Pine	15	Sapling/Pole	4					

<b>21</b>	42220 - Natural Jack Pine	Sapling Well	92.8	33	Unspecified	N/A	Stand was cut as part of the Big Ditch Sale
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Sapling	3		Tag Alder	Low	< 5 feet	Tall Shrub
Jack Pine	66	Sapling/Pole	4	33	Pin Cherry	Low	< 5 feet	Tall Shrub
Black Spruce	15	Sapling	3					
Paper Birch	2	Sapling	3					
White Pine	8	Sapling	3					
Red Maple	2	Sapling	3					
Tamarack	2	Sapling	3					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**22** 6122 - Black Spruce Poletimber Medium 18.3 90 Unspecified N/A Stand is currently under contract.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	60	Pole	6	90	Tamarack	Low	< 5 feet	Sapling
Northern White Cedar	7	Pole	9		Tag Alder	Medium	< 5 feet	Tall Shrub
Tamarack	31	Pole	7		Black Spruce	Medium	< 5 feet	Sapling
Red Maple	2	Pole	8					

**23** 42290 - Natural Mixed Pine Sapling Well 13.2 33 1-50 N/A Stand was cut as part of Big Ditch Sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	3	Pole	8		Pin Cherry	Low	< 5 feet	Tall Shrub
Jack Pine	47	Sapling	3	33	Tag Alder	Low	< 5 feet	Tall Shrub
Red Maple	3	Pole/Log	9					
White Pine	15	Sapling	3					
Black Spruce	20	Sapling	3					
Balsam Fir	12	Sapling	3					

**24** 6122 - Black Spruce Poletimber Medium 10.7 83 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	85	Pole	6	83	Black Spruce	Medium	Variable	Sapling
Jack Pine	10	Pole	7		Tag Alder	Medium	< 5 feet	Tall Shrub
Tamarack	5	Pole	7					

**25** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 20.1 93 51-80 N/A

**26** 622 - Lowland Shrub Nonstocked 73.6 Unspecified No

**27** 42290 - Natural Mixed Pine Sawtimber Well 6.7 93 81-110 N/A Limited and difficult access to this stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	24	Log/XLog/Pole	14		Black Spruce	Medium	Variable	Sapling
Paper Birch	4	Pole/Log	10		White Pine	Low	< 5 feet	Sapling
Jack Pine	36	Log/Pole	10	93	Red Maple	Medium	10 - 20 feet	Sapling
Black Spruce	6	Pole	8		Tag Alder	Low	< 5 feet	Tall Shrub
Red Maple	4	Log/Pole	10					
Red Pine	26	Log/XLog/Pole	14					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>28</b>	429 - Mixed Upland Conifers	Sapling Poor	155.5	9	1-50	N/A	Stand was harvested in winter of 2012, Indian Lake Spruce 41-022-03-01. Most of it is low ground and should regenerate to spruce, but there are a few high ground ridges present. stand was scarified in 2013.  Passed regeneration check in 2017.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Tamarack		25	Sapling	1	9				
Jack Pine		50	Sapling	1	9				
Black Spruce		25	Sapling	1	9				
<b>29</b>	42290 - Natural Mixed Pine	Sawtimber Well	3.3	93	51-80	N/A			
<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>
Black Spruce		4	Pole	8		Black Spruce	Medium	Variable	Sapling
White Pine		22	Log/Pole/XLog	13		Tag Alder	Low	< 5 feet	Tall Shrub
Red Maple		5	Log/Pole	10		Red Maple	Medium	5 - 10 feet	Sapling
Red Pine		22	Log/XLog/Pole	15		White Pine	Low	< 5 feet	Sapling
Paper Birch		5	Pole/Log	10					
Jack Pine		42	Log/Pole	10	93				
<b>30</b>	6121 - Tamarack	Poletimber Well	4.0	113	Unspecified	N/A			
<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>
Black Spruce		10	Pole	7		Tamarack	Medium	5 - 10 feet	Sapling
Northern White Cedar		10	Log/Pole	10		Tag Alder	High	5 - 10 feet	Tall Shrub
Tamarack		76	Pole/Log	9	113	Black Spruce	Medium	Variable	Sapling
Red Maple		4	Pole/Log	9					
<b>31</b>	6121 - Tamarack	Poletimber Medium	1.8	113	Unspecified	N/A			
<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>
Black Spruce		26	Pole	8		Tag Alder	High	< 5 feet	Tall Shrub
Northern White Cedar		7	Log/Pole	10		Tamarack	Medium	< 5 feet	Sapling
Red Maple		3	Log/Pole	10		Black Spruce	Medium	Variable	Sapling
Tamarack		64	Pole	9	113				
<b>32</b>	622 - Lowland Shrub	Nonstocked	1.3		Unspecified	No			
<b>33</b>	429 - Mixed Upland Conifers	Sawtimber Well	5.9	96	51-80	N/A	Stand is currently under contract.		
<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		40	Log/XLog/Pole	15	96	White Pine	Medium	< 5 feet	Sapling
Balsam Fir		8	Pole	8		Black Spruce	Medium	Variable	Sapling
Red Maple		20	Log/Pole	10		Balsam Fir	Full	Variable	Sapling
Red Pine		4	Log/Pole/XLog	15					
Black Spruce		28	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**34** 6129 - Mixed Coniferous Lowland Forest Poletimber Poor 4.6 113 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	15	Log	10		Tag Alder	High	< 5 feet	Tall Shrub
Tamarack	45	Pole	8	113	Black Spruce	Medium	< 5 feet	Sapling
Red Maple	15	Log/Pole	10		Tamarack	Medium	< 5 feet	Sapling
Black Spruce	25	Pole	8					

**35** 6122 - Black Spruce Poletimber Well 11.6 93 Unspecified N/A Stand is currently under contract.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole	8		Balsam Fir	Low	Variable	Sapling
Red Pine	3	Log	11		Black Spruce	Medium	Variable	Sapling
Black Spruce	80	Pole	8	93	Tag Alder	Medium	< 5 feet	Tall Shrub
Jack Pine	2	Log	10		Red Maple	Low	5 - 10 feet	Sapling
Red Maple	2	Pole/Log	10					
White Pine	6	Log	12					
Northern White Cedar	5	Pole/Log	9					

**36** 6120 - Lowland Cedar Sawtimber Well 174.7 125 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	5	Log/Pole	10		Balsam Fir	Low	< 5 feet	Sapling
Northern White Cedar	79	Log/Pole	10	125	Tag Alder	Low	< 5 feet	Tall Shrub
Tamarack	4	Log/Pole	10					
Paper Birch	12	Log/Pole	10					

**37** 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 7.8 115 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole/Log	9		Black Spruce	Medium	Variable	Sapling
Northern White Cedar	20	Log	11		Balsam Fir	High	Variable	Sapling
Paper Birch	10	Pole	6		Tag Alder	High	5 - 10 feet	Tall Shrub
Tamarack	48	Pole/Log	9	115				
Black Spruce	10	Log/Pole	10					
Balsam Fir	5	Pole	6					
Black Ash	5	Pole	8					

**38** 330 - Low-Density Trees Nonstocked 66.1 0 4222 - Natural Jack Pine

**39** 6126 - Lowland Jack Pine Sapling Medium 15.3 25 Unspecified N/A Part of Mick's Ridges Sale, portions of the stand was seeded but it's not clear which areas were seeded and which weren't.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	75	Sapling	2	25	Tag Alder	Low	< 5 feet	Tall Shrub
Black Spruce	25	Sapling	2					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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40 6224 - Treed Bog Nonstocked 1.4 Unspecified No

41 623 - Emergent Wetland Nonstocked 20.0 Unspecified No

42 42220 - Natural Jack Pine Sapling Well 4.2 25 Unspecified N/A Stand was cut as part of Mick's Ridges Sale, portions of the sale were seeded but its not clear where those are.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	20	Sapling	2	
Jack Pine	80	Sapling	2	25

43 6122 - Black Spruce Poletimber Well 3.1 93 Unspecified N/A Stand is landlocked.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	10	Log/XLog	15		White Pine	Low	< 5 feet	Sapling
Northern White Cedar	14	Pole/Log	9		Red Maple	Medium	10 - 20 feet	Sapling
Paper Birch	3	Pole	8		Tag Alder	Medium	< 5 feet	Tall Shrub
Black Spruce	73	Pole	8	93	Black Spruce	Medium	Variable	Sapling

44 429 - Mixed Upland Conifers Sawtimber Well 5.7 103 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	28	Log/Pole	10		White Pine	Low	< 5 feet	Sapling
Northern White Cedar	3	Pole/Log	9		Balsam Fir	Full	Variable	Sapling
Balsam Fir	8	Pole	8		Black Spruce	Medium	Variable	Sapling
Red Pine	6	Log/XLog	15		Red Maple	Medium	10 - 20 feet	Sapling
Black Spruce	2	Pole	7					
Hemlock	6	Log/Pole	11					
Paper Birch	8	Log/Pole	10					
White Pine	39	Log/XLog	15	103				

45 429 - Mixed Upland Conifers Sapling Medium 88.9 25 51-80 N/A Stand was cut as part of Mick's Ridges Sale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	10	Sapling	3		Tag Alder	Low	< 5 feet	Tall Shrub
Red Maple	2	Sapling	3		Pin Cherry	Low	< 5 feet	Tall Shrub
White Pine	7	Sapling	3					
Black Spruce	30	Sapling	3					
Balsam Fir	5	Sapling	3					
Jack Pine	46	Sapling/Pole	3	25				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
<b>46</b>	6120 - Lowland Cedar	Sawtimber Well	13.1	125	Unspecified	N/A																																																	
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<b>47</b>	6122 - Black Spruce	Poletimber Well	26.2	93	Unspecified	N/A																																																	
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<b>48</b>	429 - Mixed Upland Conifers	Sapling Well	23.4	25	1-50	N/A	Large sprawling stand part of Mick's ridges sale, never scarified. Stand is a mix of ridges and regenerating well.																																																
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<b>50</b>	623 - Emergent Wetland	Nonstocked	495.3		Unspecified	No																																																	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
52	429 - Mixed Upland Conifers	Sapling Medium	11.9	25	1-50	N/A	Part of Mick's Ridges Sale, records indicate the stand was never scarified.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	11	Sapling/Pole	4		Pin Cherry	Low	< 5 feet	Tall Shrub
Red Pine	7	Log	11		Tag Alder	Low	< 5 feet	Tall Shrub
Balsam Fir	4	Sapling	3					
White Pine	7	Log	11					
Black Spruce	19	Sapling	3					
Red Pine	2	Sapling	3					
Red Maple	10	Sapling	3					
White Pine	5	Sapling	3					
Jack Pine	35	Sapling	3	25				

53	6120 - Lowland Cedar	Poletimber Well	41.5	124	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	8	Pole	8		Balsam Fir	Low	Variable	Sapling
Paper Birch	10	Pole	9		Tamarack	Low	< 5 feet	Sapling
Northern White Cedar	72	Log/Pole	10	124	Tag Alder	Low	< 5 feet	Tall Shrub
Black Spruce	10	Pole	8					

54	429 - Mixed Upland Conifers	Sapling Medium	53.4	25	1-50	N/A	Part of Mick's Ridges Sale, records indicate the stand was never scarified.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	10	Sapling	2		Tag Alder	Low	< 5 feet	Tall Shrub
Balsam Fir	3	Sapling	2					
Jack Pine	45	Sapling	2	25				
Black Spruce	35	Sapling	2					
Red Maple	2	Sapling	2					
White Pine	5	Sapling	2					

55	6121 - Tamarack	Poletimber Medium	19.6	95	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole	10		Tag Alder	High	< 5 feet	Tall Shrub
Tamarack	50	Pole/Sapling	7	95	Tamarack	Medium	5 - 10 feet	Sapling
Black Spruce	39	Pole/Sapling	7		Black Spruce	Medium	Variable	Sapling
Red Maple	4	Pole	8					
Red Pine	2	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
<b>56</b>	6120 - Lowland Cedar	Poletimber Well	376.6	120	Unspecified	N/A																																																									
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<b>60</b>	6122 - Black Spruce	Poletimber Well	46.4	95	Unspecified	N/A																																																									
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<b>62</b>	622 - Lowland Shrub	Nonstocked	71.8		Unspecified	No																																																									
<b>63</b>	330 - Low-Density Trees	Nonstocked	18.3	0	Unspecified	4222 - Natural Jack Pine	Stand was cut as part of Adam's Ridges and the Tom Sale.																																																								