

# Compartment Review Presentation

## Newberry Forest Management Unit

Compartment 42054

Entry Year: 2027

Acreage: 1,949

County: Chippewa

Management Area: Grand Marais Moraine Complex

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**Stand Examiner:** Amy Livermore

### Legal Description:

T50N R07W Sections 1-4, 9-12 & 15

### Identified Planning Goals:

Manage timber for health, diversity and wildlife habitat. Protection of the natural communities associated with the sensitive dune systems and the Lake Superior shoreline is an essential goal within the compartment.

### Soil and topography:

Deer Park fine sands predominates the rolling upland pine areas with abrupt escarpments. The slightly rolling hardwoods are split between Wainola-Kinross-Rousseau complex and Kalkaska-Ocqueoc complex, with small inclusions of Kinross-Wainola complex and Alcona loamy very fine sand. The area below the sand escarpment is generally low ground on primarily Markey-Kinross-AuGres complex and Croswell-Markey complex to the east. The dunes along Lake Superior consists of Deer Park-Kinross complex.

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

State lands abut to the east and southeast. The inholdings along the lakeshore are held by Little Traverse Conservancy and Michigan Nature Association. These landowners continue along the western boundary also. The Little Traverse Conservancy lands along the lakeshore are managed as the Vermillion Point Nature Preserve, where their goal is to preserve Vermillion's historical and natural environment. Their other ownership in section 9 is managed as Jinny Palms Nature Preserve. This tract of land is being managed as a protected natural area and is for recreational and educational purposes. The Michigan Nature Association has two holdings: Lake Superior Nature Sanctuary and Pat Grogan Shelldrake Bog. Their goal is to protect some of Michigan's most exceptional natural habitats and exceptional or extraordinary species.

Smaller parcels (generally 10 acres in size), used as camps, abut to the south.

### Unique Natural Features:

MNFI has identified several and potential threatened and endangered flora and fauna.

### Archeological, Historical, and Cultural Features:

The Vermillion Point Lifesaving Station is adjacent on Little Traverse Conservancy lands.

### Special Management Designations or Considerations:

The area below the escarpment along the lakeshore should be considered as a Natural Area due to its' similarity to the adjacent Little Traverse Conservancy and Michigan Nature Conservancy lands. This area also continues to the west along the lakeshore. The three lone parcels in the southwest could be offered to the Little Traverse Conservancy or Michigan Nature Association due to the limited access and adjacency to these holdings. No management is being considered within these areas.

### Watershed and Fisheries Considerations:

Fisheries Concerns: The Betsy (Shelldrake) River borders the south edge of this compartment with the Weatherhog and Two Mile Lakes located in the northern portion. Most of these lakes are subject to frequent winter-kills due to the heavy snowfall that occurs in this area. The Betsy River reach in this area provides a transitional fishery for primarily Northern Pike. Any treatments that do occur in stands near the river or surface water need to follow standard best management practices (BMP's).

### Wildlife Habitat Considerations:

Compartment 54 lies in northern Chippewa County along Lake Superior and is in the Grand Marais Moraine Complex Management Area. The northern part of the compartment is primarily marsh and lowland brush with mixed conifer stands and ridges of birch throughout. Sand dunes lie along the northern shoreline. South of the birch ridges, the compartment is dominated by red and jack pine stands with a few non-pine stands mixed in. The Betsy River borders much of the southern edge of this compartment and The Michigan Nature Association, Wild Shore Foundation and Little Traverse Conservancy own adjacent properties on the north and west borders of the compartment. Approximately 1/3 to 1/2 of the compartment is wildlife purchased lands. In the predominantly pine forested ecosystem in the southern portion, maintaining a variety of

age and size classes and maintaining structural diversity in managed stands will be important to achieving wildlife objectives. Retaining soft and hard mast producing species will provide food sources, nest and den trees, and improve stand diversity. Forested corridors should be plentiful and facilitate ease of movement between upland and lowland areas. Wildlife species potentially using this compartment include white-tailed deer, moose, ruffed grouse, black bear, otter, mink, and gray wolves. Featured species include Blackburnian warbler, black throated blue warbler, American marten, Kirtland's warbler, red crossbill, spruce grouse, ruffed grouse and white-tailed deer.

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

Surface sediments consist of lacustrine sand and gravel and a portion of an end moraine of coarse-textured till extends into Section 10. There is insufficient data to determine the glacial drift thickness (~ >100 feet). The Precambrian Jacobsville Sandstone subcrops below the glacial drift. The Jacobsville was used as a building stone in the past. Gravel pits are not located in the area, but there may be potential on the uplands. There is no economic oil and gas production in the UP.

### **Vehicle Access:**

The main vehicle access into the compartment is via the Vermilion Road, a county sand road. Other roads in the compartment are primarily poor sand two tracks. There are several two tracks that lead to private cabins within the compartment areas, many of which are gated. Much of the acreage in the northern portion of the compartment is accessible by foot only.

### **Survey Needs:**

Corners will be needed for treatments along private lands in section 3 and 10.

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

Snowmobile trail #452 crosses the compartment. There are some informal campsites used along the Betsy River. Walking trails exist within the adjacent Nature Preserves. Most are old logging roads.

### **Fire Protection:**

The compartment is part of the Whitefish Zone Dispatch Area. Wide spread areas of conifers and mixed lowland types may impact suppression efforts. Response times to this area are quite long, which may impact on fire size and risk to surrounding private property.

### **Additional Compartment Information:**

Compartment lines changed from last entry by adding stands in sections 4 and 9 due to proximity and access.

### **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**

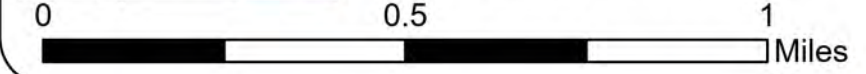
### **The following information is displayed, where pertinent, on the attached compartment maps:**

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

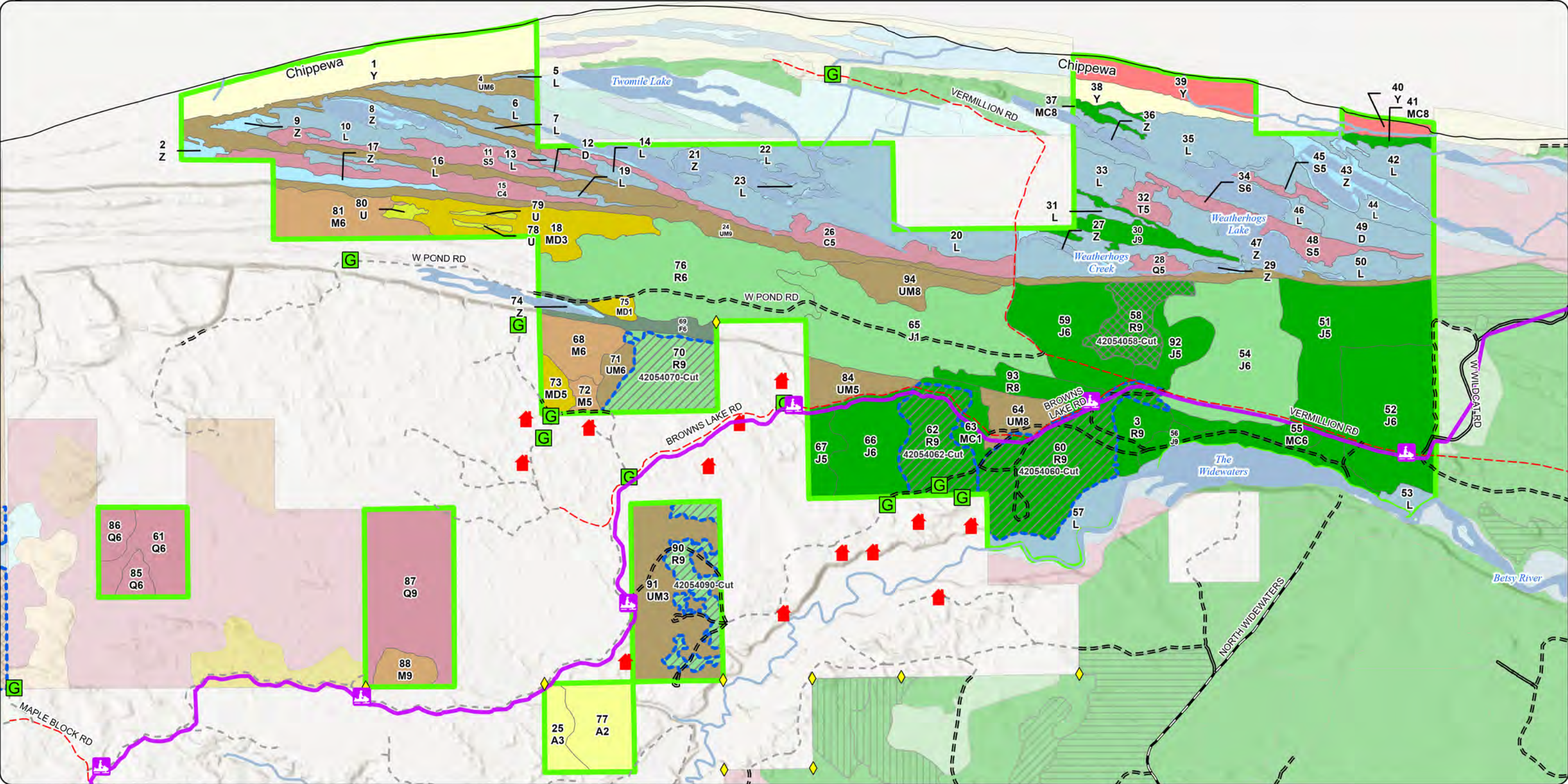
**Cover Type & Treatments Map**



Compartment: 42054  
 T50N R07W 01-04, 09-12, 15  
 County: Chippewa  
 Unit: Newberry  
 Mgmt. Area: Grand Marais Moraine Complex  
 YOE: 2027  
 Acres: 1,949 GIS Calculated  
 Examiner: Amy Livermore  
 Date Exported: 2/23/2026  
 Map Phase: Post Review



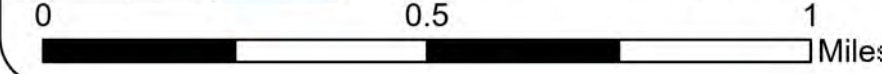
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|-------------------------------|------------------------------------|--------------------------------|-----------------------------------|
| ◆ Survey Grade Corners        | --- County - Dirt Road (Seasonal)  | ▨ Thinning                     | ■ 430 - Upland Mixed Forest       |
| 🏠 Cabin                       | - - - Private - Dirt / Gravel Road | ■ 411 - Northern Hardwood      | ■ 500 - Water                     |
| 🟩 Gate                        | — Streams                          | ■ 413 - Aspen                  | ■ 612 - Lowland Coniferous Forest |
| 🚗 Designated Snowmobile       | 🟦 Lakes and Rivers                 | ■ 419 - Mixed Upland Deciduous | ■ 330 - Low Density Trees         |
| — DNR - Primary Forest Road   | 🟩 Compartment Boundary             | ■ 421 - Planted Pines          | ■ 622 - Lowland Shrub             |
| — DNR - Secondary Forest Road | 🟦 Treatments with Site Conditions  | ■ 422 - Natural Pines          | ■ 710 - Sand, Soil                |
| == DNR - Forest Access Route  | ▨ Selection                        | ■ 423 - Other Upland Conifers  | ■ 730 - Mud Flats                 |



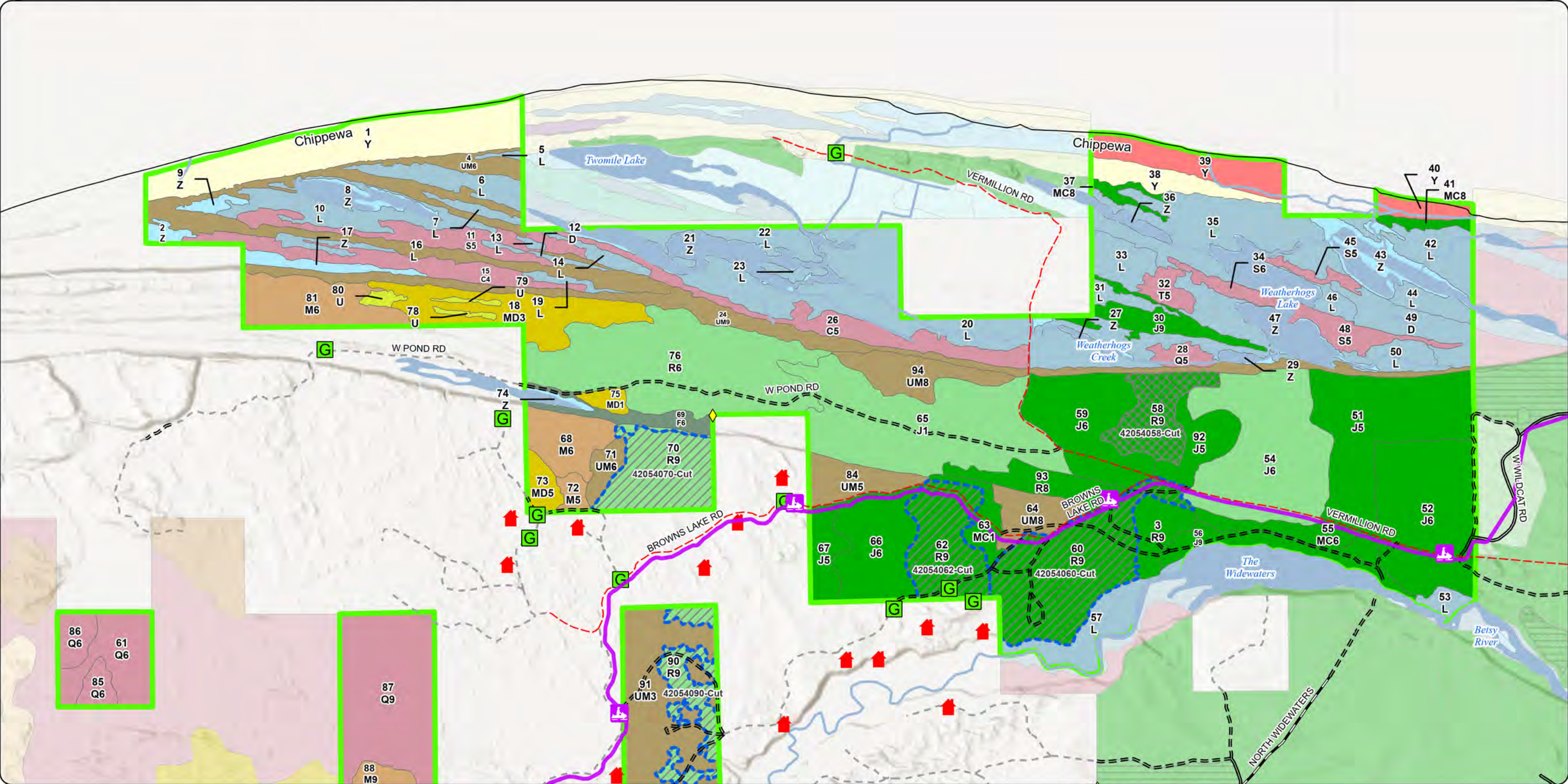
**Cover Type & Treatments Map**



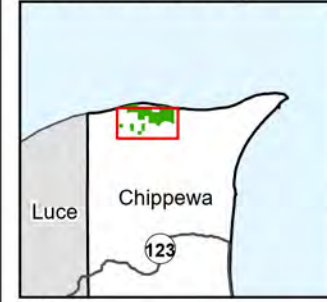
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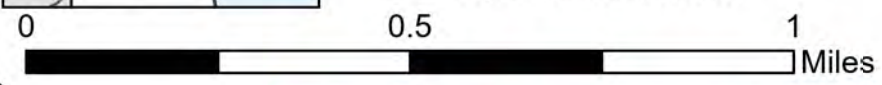
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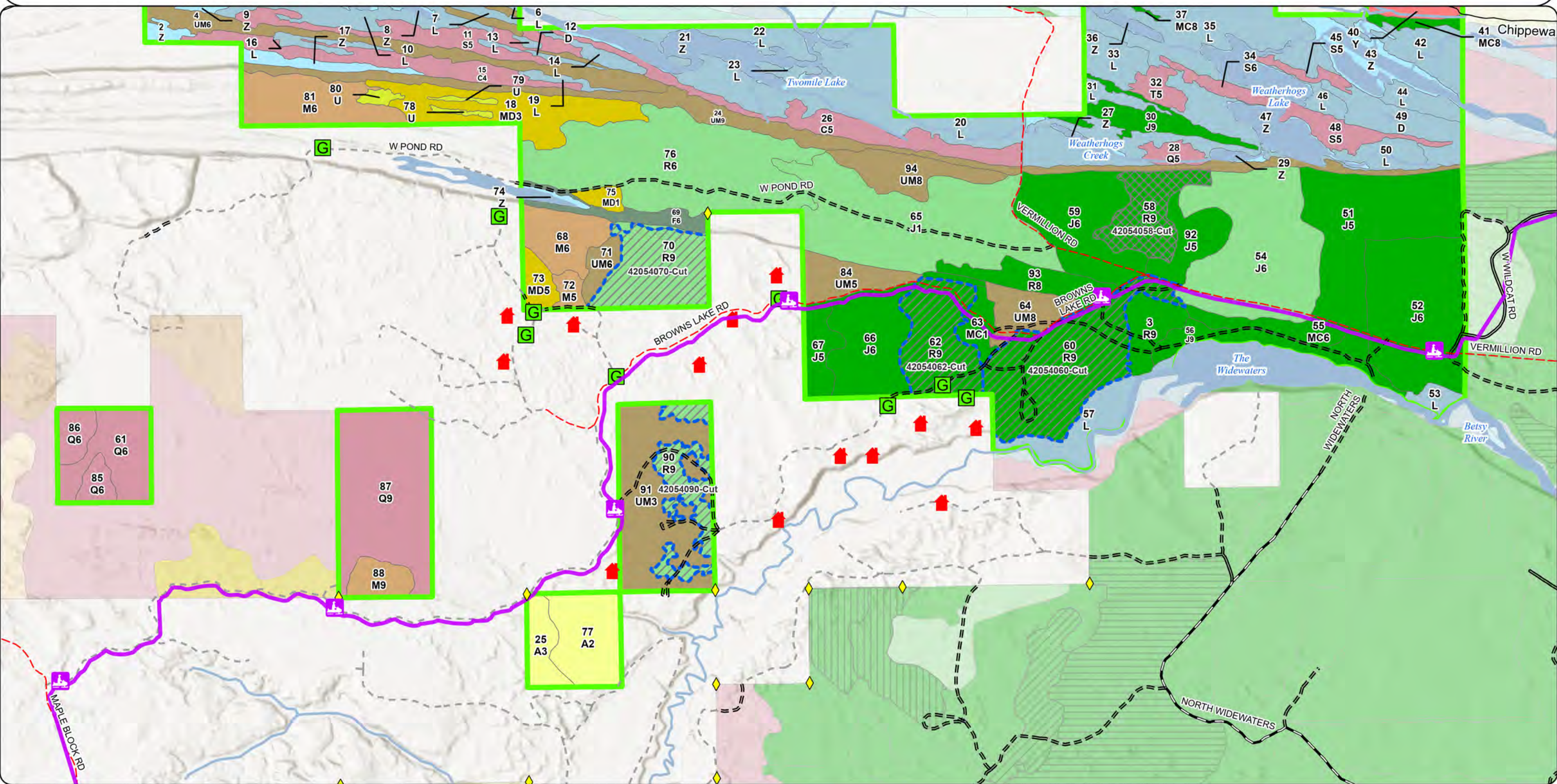
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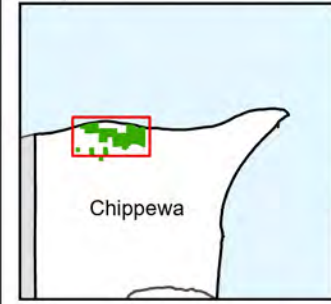
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# Stand Boundary Map



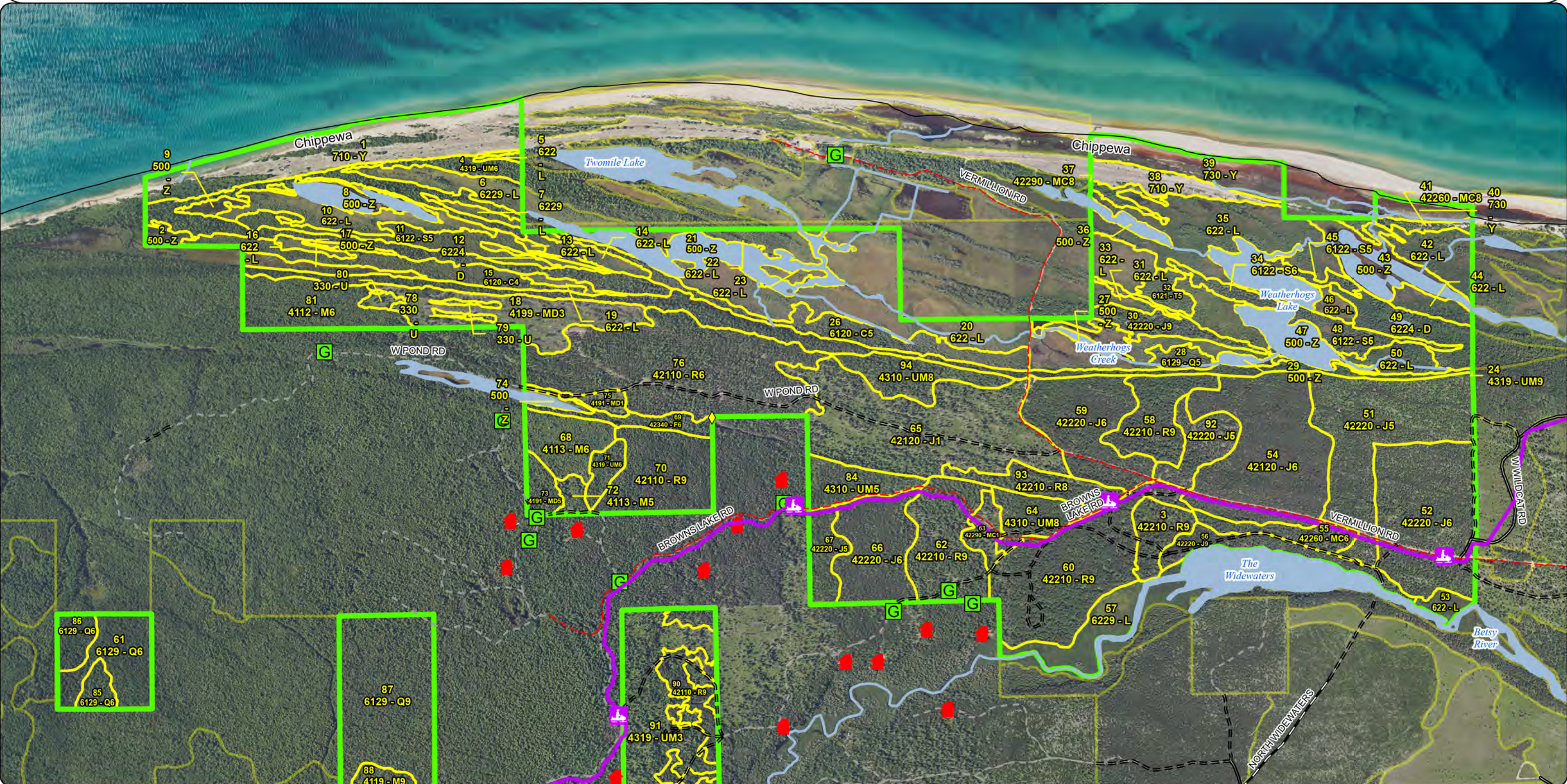
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- Compartment Stand Yellow Outline (PD)

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86  
 6129 - Q6  
 61  
 6129 - Q6  
 85  
 6129 - Q6

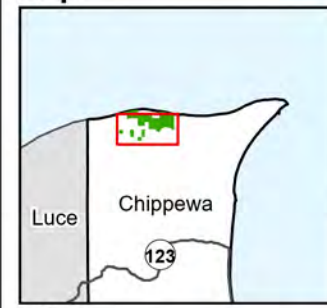
87  
 6129 - Q9

88  
 4119 - M9

90  
 42110 - R9

91  
 4319 - UM3

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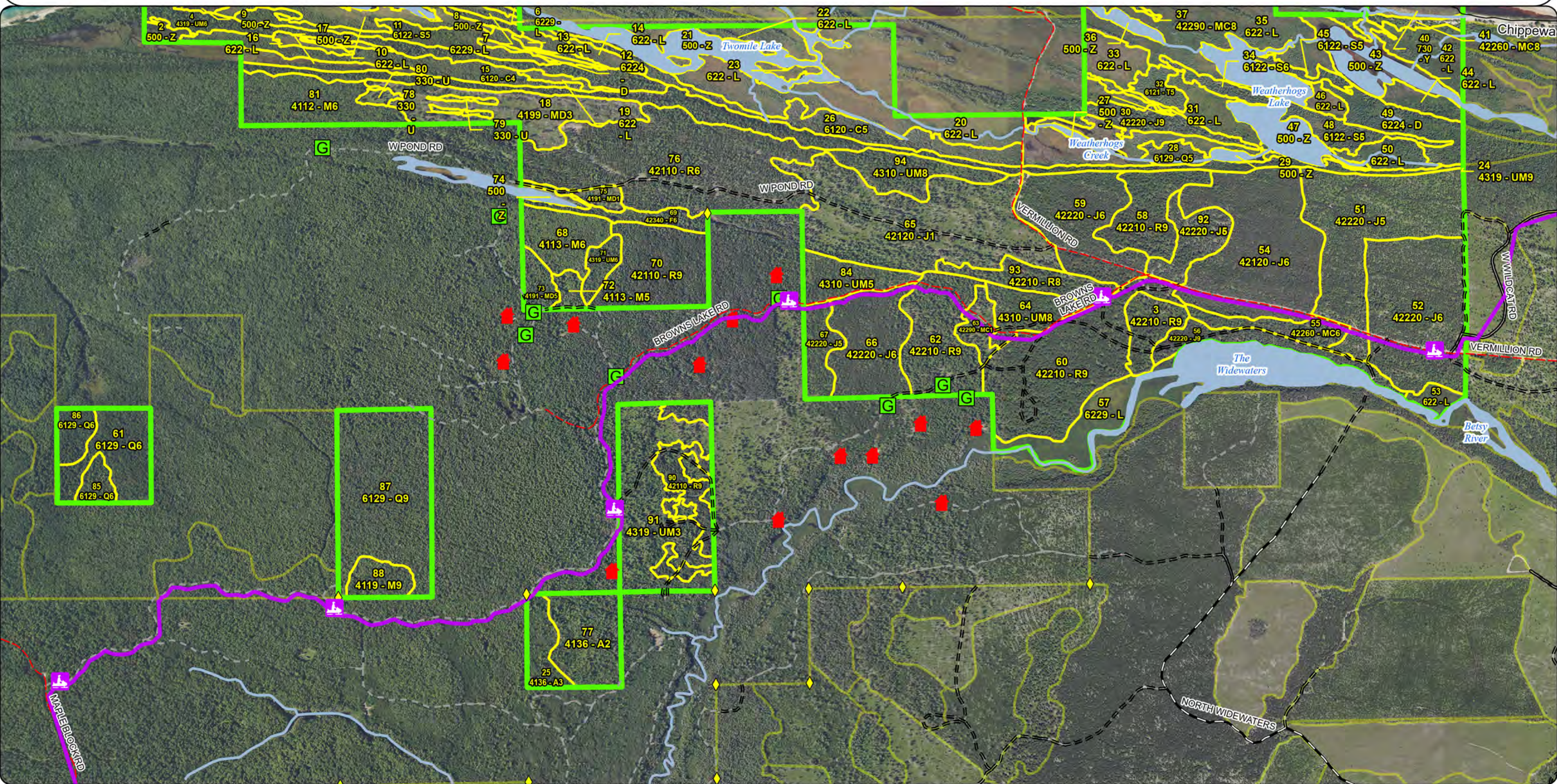
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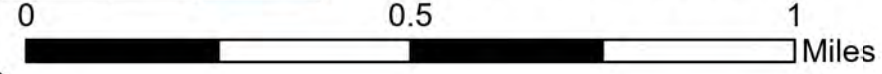
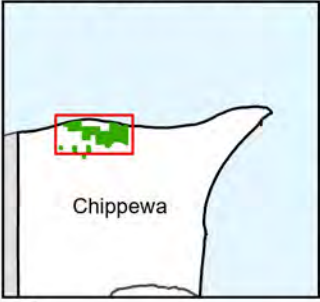
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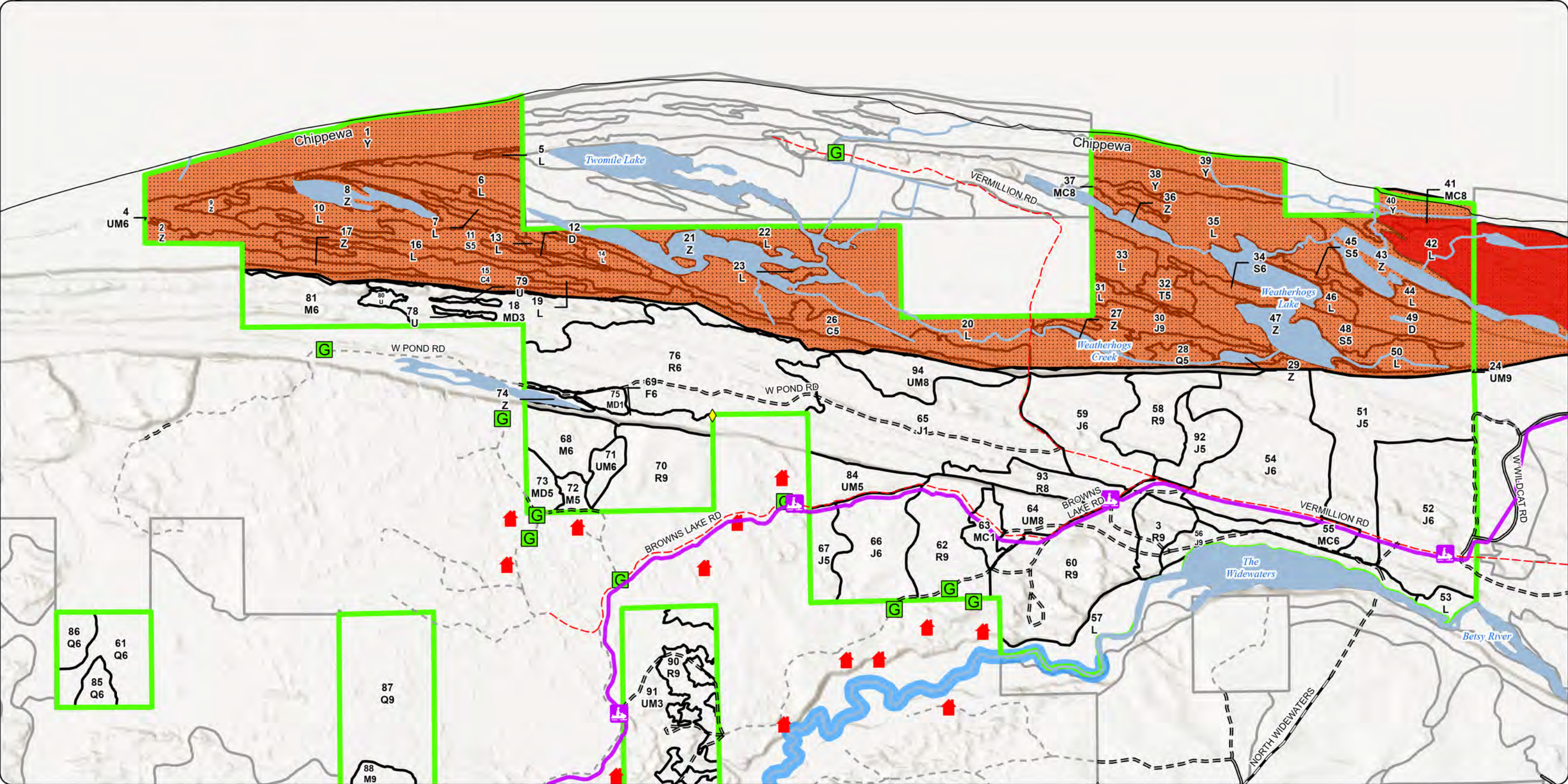


**Special Conservation Areas  
& Site Conditions Map**

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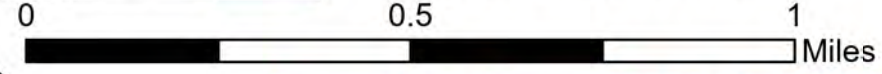
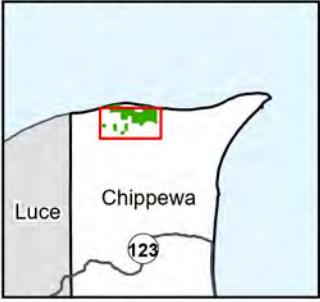


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- Ecological Reference Areas
- Special Conservation Areas
- SCA Proposal
- Cold Water Lakes and Streams
- Cold Water Streams
- Springs, Wetlands, and Riparian Areas
- High Priority Trout Stream Buffer
- Reviewable SCAs
- Other Habitat Area

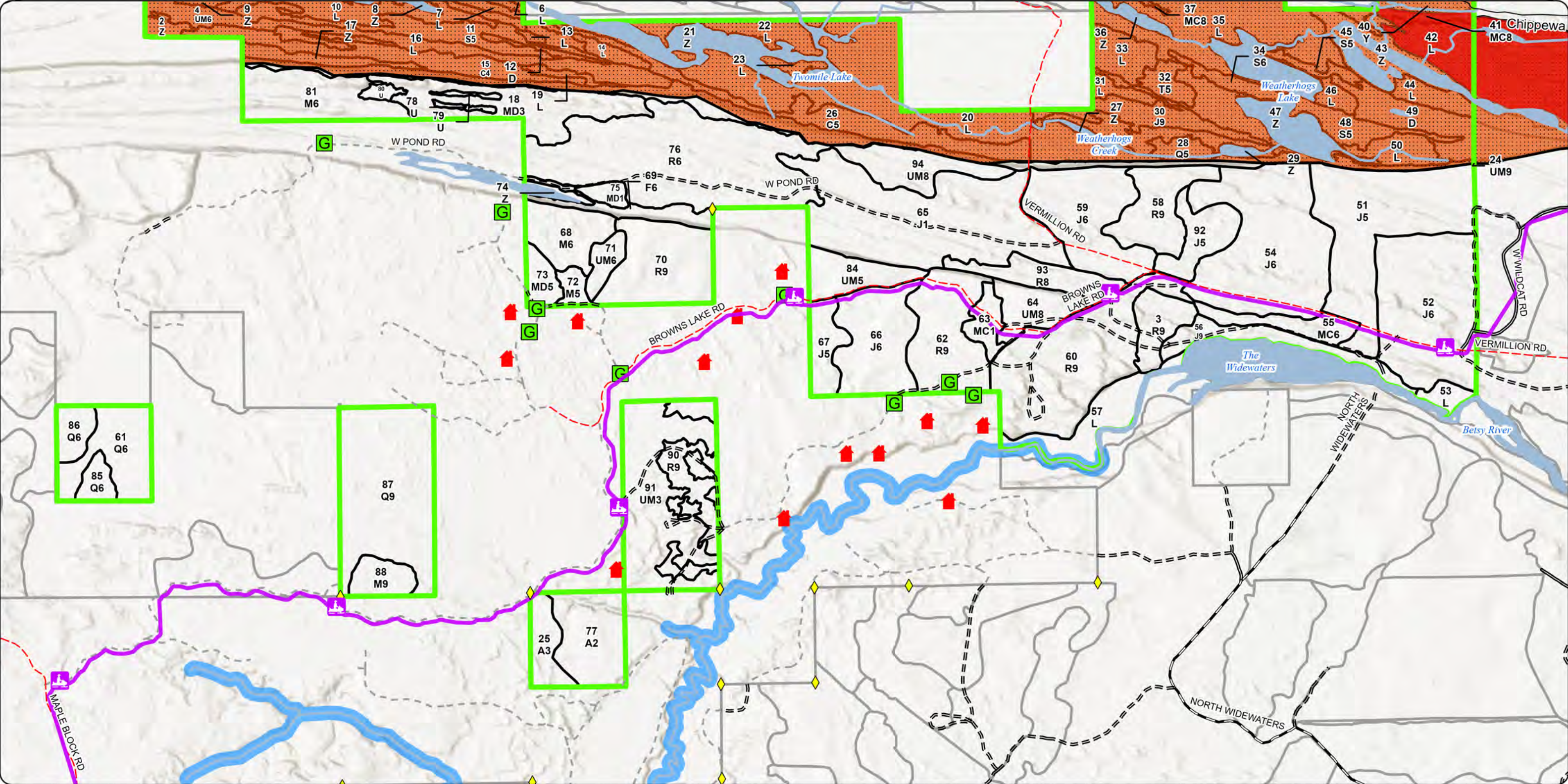


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# Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 54    Year of Entry 2027

Amy Livermore: Examiner

## Age Class

	<i>Non-Forest</i>	<i>0-9</i>	<i>10-19</i>	<i>20-29</i>	<i>30-39</i>	<i>40-49</i>	<i>50-59</i>	<i>60-69</i>	<i>70-79</i>	<i>80-89</i>	<i>90-99</i>	<i>100-109</i>	<i>110-119</i>	<i>120-129</i>	<i>130-139</i>	<i>140-149</i>	<i>150+</i>	<i>Unseen-Aged</i>	<i>Total</i>
Aspen	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Cedar	0	0	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	52
Jack Pine	0	90	0	0	12	286	0	16	0	0	33	0	0	0	0	0	0	0	437
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	114	0	0	0	0	0	0	0	114
Lowland Shrub	312	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	312
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	23	0	21	0	0	0	0	0	0	0	44
Mixed Upland Deciduous	0	41	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	47
Natural Mixed Pines	0	0	8	0	0	0	12	0	0	0	0	0	0	0	8	0	0	0	28
Northern Hardwood	0	0	0	0	0	0	0	25	0	0	40	0	0	0	0	0	0	0	64
Red Pine	0	0	0	0	0	0	0	155	0	0	157	0	0	0	0	0	0	0	311
Sand, Soil	114	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
Tamarack	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Treed Bog	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Mixed Forest	0	0	0	58	16	0	0	7	0	0	140	0	0	0	0	0	0	0	221
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	11
Water	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119
<b>Total</b>	<b>572</b>	<b>131</b>	<b>8</b>	<b>98</b>	<b>28</b>	<b>286</b>	<b>12</b>	<b>210</b>	<b>23</b>	<b>0</b>	<b>575</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1948</b>

## Report 2 – Treatment Summary

Newberry Mgt. Unit  
Year of Entry: 2027

Acres of Harvest

Compartment 54  
Total Compartment Acres: 1,949

Commercial Harvest - 48  
Harvests with Site Condition - 158  
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
<b>Red Pine</b>		0	24	0	0	0	158	0	0	0	182
	<b>Total</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>158</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>182</b>

### Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
<b>Current</b>		182	0	0	0	0	0	0	0	0	182
	<b>Next Step</b>	0	0	0	0	0	24	0	0	0	24
	<b>Total</b>	<b>182</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>24</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>206</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>58</b>	<b>42054058-Cut</b>	24.1	42210 - Natural Red Pine	9	96	81-110	Harvest	Selection	42210 - Natural Red Pine	Planting Record	No
<p><u>Prescription</u> Thin stand to a residual basal area range from 40 - 80; average 60 BA. Leave all oak for mass production and birch and sub-merchantable spruce for structural diversity.</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> red pine, white pine, oak</p> <p><u>Regen:</u></p> <p><u>Other</u> Natural pine guidance: Expanding Gap</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
<b>60</b>	<b>42054060-Cut</b>	66.7	42210 - Natural Red Pine	9	96	111-140	Harvest	Thinning	42210 - Natural Red Pine	Planting Record	No
<p><u>Prescription</u> Thin stand to residual basal area range from 60 - 100; average 80 BA. Leave oak for mass production and birch for future soft snags.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine, white pine with oak, aspen and jack pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Treatment size may change due to topography in the stand. Natural pine guidance: Expanding gap</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											
<b>62</b>	<b>42054062-Cut</b>	34.4	42210 - Natural Red Pine	9	96	111-140	Harvest	Thinning	42210 - Natural Red Pine	Planting Record	No
<p><u>Prescription</u> Thin stand to basal area range 60 - 100; average 80 BA. In open areas take few or no trees. Do not take BA down below 60. Leave oak for mass production. Leave 1 limby larger white pine per acre for bear escape trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Natural Pine Guidance: Thinning</p> <p><u>Comment:</u></p> <p><u>Site Condition:</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/01/2026</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>70 42054070-Cut</b>	34.7	42110 - Planted Red Pine	9	66	141- 170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> Mark red pine for first thinning. May be hard to follow rows. Cut all jack pine. Leave all other species.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u> Red pine, jack pine, white pine, oak, aspen, maple.  <u>Regen:</u>  <u>Other</u> Access through private land to the south. Buffer bluff on the north side of the treatment with a 30 foot buffer.  <u>Comment:</u>  <u>Site Condition:</u> Unknown Access  <u>Proposed Start Date:</u> 10/01/2026</p>										
<b>90 42054090-Cut</b>	21.8	42110 - Planted Red Pine	9	66	141- 170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<p><u>Prescription</u> 80-110BA. Do not take the BA below 80 in any area of the stand. Leave non-red pine species for diversity.  <u>Specs:</u>  <u>Next Step</u>  <u>Treatments:</u>  <u>Acceptable</u>  <u>Regen:</u>  <u>Other</u>  <u>Comment:</u>  <u>Site Condition:</u> Unknown Access  <u>Proposed Start Date:</u> 10/01/2026</p>										

**Total Treatment** 181.7  
**Acreage Proposed:**

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Livermore: Examiner

Compartment: 54  
Year of Entry: 2027

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions									
		With Condition			2B	2I	5B	5C	2F	3A	3J			
40	40	0		0	Aspen									
52	0	0		52	Cedar							52		
437	388	16		33	Jack Pine				16			16	17	
5	5	0		0	Low-Density Trees									
115	0	0		115	Lowland Conifers							115		
312	28	0		284	Lowland Shrub							284		
44	0	0		45	Lowland Spruce/Fir							45		
48	48	0		0	Mixed Upland Deciduous									
28	20	0		8	Natural Mixed Pines							8		
64	55	0		10	Northern Hardwood							10		
309	134	156		19	Red Pine	57	85	15		19				
114	0	0		114	Sand, Soil							114		
7	0	0		7	Tamarack							7		
22	0	0		22	Treed Bog							22		
215	23	90		102	Upland Mixed Forest	58		33		45	58			
8	0	0		8	Upland Spruce/Fir					8				
119	3	0		116	Water							116		
1,938	742	263		933	Total Forested Acres	114	85	48	16	71	844	17		
	38%	14%		48%	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	2F: Too steep	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
2	Unavailable	2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Livermore: Examiner

Compartment: 54  
Year of Entry: 2027

3	<b>Unavailable</b>	<b>2F: Too steep</b>	44	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	<b>Unavailable</b>	<b>3A: Conservation values incompatible with harvest at this time</b>	119	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Contiguous resource Area SCA. Access is through Little Traverse Conservancy's Jinny Palms Nature Preserve. These parcels should be looked at for trade or disposal with the Little Traverse Conservancy or Michigan Nature Association (adjacent landowners also).							
5	<b>Unavailable</b>	<b>3J: Water quality/BMPs (stream, river, or lake)</b>	17	3D: Recreational/scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Area is used by dispersed campers and fisherman. Overlooks the Widewaters.							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>2I: Survey needed</b>	50	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Shelterwood cut in 2009. Nice regeneration coming in.							

## Report 4 – Site Conditions

Newberry Mgt. Unit  
Amy Livermore: Examiner

Compartment: 54  
Year of Entry: 2027

9	Available	2I: Survey needed	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Available	2B: Unknown if access through adjacent landowner(s) is possible	35	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Available	2B: Unknown if access through adjacent landowner(s) is possible	80	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	5E: Long-Term Retention	1	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Bluff buffer 30 feet.							

**Report 4 – Site Conditions**

**Newberry Mgt. Unit**  
**Amy Livermore: Examiner**

**Compartment: 54**  
**Year of Entry: 2027**

15	<b>Unavailable</b>	<b>2F: Too steep</b>	17	3D: Recreational/scenic values	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Unavailable</b>	<b>3A: Conservation values incompatible with harvest at this time</b>	725	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Proposed natural area along recessional beach lines, dunes, and adjacent areas of Lake Superior. Connect with existing proposed natural area(s) in Comp 53 to the west. In-holdings are owned by Little Traverse Conservancy and Michigan Nature Association. Contains lowland drainages of Weatherhogs Creek and other associated with Two Mile Lake and Weatherhogs Lake, as well as dune and swale complex.							

**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.

<b>SCA Name</b>	<b>SCA Category</b>	<b>Detail Type</b>	<b>Recommendation</b>	<b>Acres</b>
<b>Vermilion Point Important Bird Habitat</b>	Habitat Area or Habitat Corridor	Other Habitat Area	<b>SCA Proposal</b>	
<b>Comments</b> Area not formally recognized in current Important Bird Areas (IBA) data, but recognized as similar to designations/conditions as Whitefish Point.				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
1	710 - Sand, Soil	None	66.6			No	Lake Superior shoreline. Stand changes with fluctuating water levels.																																				
2	500 - Water	None	3.4			No																																					
3	42210 - Natural Red Pine	Sawtimber Well	13.7	96	1-50	N/A	Good regen under scattered red pine. Cut in 1993 (#32-89).																																				
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4	4319 - Mixed Upland Forest	Poletimber Well	57.8	91	81-110	N/A	Narrow ridges of birch, maple, white pine, balsam, spruce, cedar and red pine. Occasional oak and jack pine.																																				
5	622 - Lowland Shrub	None	1.1			No																																					
6	6229 - Mixed Lowland Shrub	None	14.5			No																																					
7	6229 - Mixed Lowland Shrub	None	3.4			No																																					
8	500 - Water	None	11.0			No																																					
9	500 - Water	None	3.1			No																																					
10	622 - Lowland Shrub	None	23.6			No																																					
11	6122 - Black Spruce	Poletimber Medium	23.4	71		N/A	Non-productive stand. Mix of black spruce and cedar.																																				
12	6224 - Treed Bog	None	2.4			No																																					
13	622 - Lowland Shrub	None	0.9			No																																					
14	622 - Lowland Shrub	None	5.0			No																																					
15	6120 - Lowland Cedar	Poletimber Poor	24.0	96		N/A	Cedar, black spruce and white pine.																																				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
16	622 - Lowland Shrub	None	4.4			No																																									
17	500 - Water	None	7.3			No	Fluctuating water.																																								
18	4199 - Other Mixed Upland Deciduous	Sapling Well	36.5	5	1-50	N/A	Good regen. Lots of red maple and paper birch stump sprouts. Residual log-sized white pine and oak.  Stand harvested via Clearcut w/ Retention: West Vermillion Pine/Birch - 42-015-17.  Rolling to steep ridges. WB is dying out. May be difficult to access parts of this stand.																																								
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19	622 - Lowland Shrub	None	2.7			No																																									
20	622 - Lowland Shrub	None	103.2		Immature	No	Adjacent to Two Mile Lake, Weatherhogs Creek and Weatherhogs Lakes.																																								
21	500 - Water	None	28.2			No	Two Mile Lake																																								
22	622 - Lowland Shrub	None	12.6			No	Adjacent to Two Mile Lake and Michigan Nature Association property.																																								
23	622 - Lowland Shrub	None	2.9			No	Island in middle of Two Mile Lake.																																								
24	4319 - Mixed Upland Forest	Sawtimber Well	48.2	96	81-110	N/A	Steep hillside across the compartment. Varied stand of white birch, red maple, white pine, balsam spruce and cedar. Occasional yellow birch, jack pine and red pine. White birch dying out. Thick balsam understory in places.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
25	4136 - Aspen, Mixed Conifer	Sapling Well	11.9	25	Immature	N/A	Very diverse stand. Occasional JP sapling. Intermittent gully crosses NE corner. NW corner lies just north of snowmobile trail. Cut in 2001 (#007-97).																																																																
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26	6120 - Lowland Cedar	Poletimber Medium	27.8	96		N/A	Poor site. Top-dead cedar mixed with black spruce. Occasional white pine.																																																																
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27	500 - Water	None	3.3			No	Weatherhogs Creek and associated water.																																																																
28	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	5.4	91		N/A	Stand is mostly cedar and spruce with a mix of tamarack, paper birch and red maple. Lowland area along marsh and heel of an escarpment to the south.																																																																
29	500 - Water	None	2.4			No	Weatherhogs Creek.																																																																
30	42220 - Natural Jack Pine	Sawtimber Well	15.7	91	111-140	N/A	Ridge, narrow in places, that sticks out into lowland types. Access road bisects the stand starting from Vermillion Road and ending on east end of stand at Weatherhogs Lakes. Access is through Michigan Nature Association land (Pat Grogan Orchid Bog).																																																																
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31	622 - Lowland Shrub	None	4.4			No																																																																	
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<b>32</b>	6121 - Tamarack	Poletimber Medium	6.7	96	51-80	N/A																																					
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<b>33</b>	622 - Lowland Shrub	None	11.8			No																																					
<b>34</b>	6122 - Black Spruce	Poletimber Well	6.0	96		N/A																																					
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<b>35</b>	622 - Lowland Shrub	None	54.0			No	Contains some small ridges with trees scattered throughout stand. Below first beach bluff and adjacent to Weatherhogs Lakes.																																				
<b>36</b>	500 - Water	None	4.1			No																																					
<b>37</b>	42290 - Natural Mixed Pine	Sawtimber Medium	4.1	136	81-110	N/A	Stand is on sand ridges directly adjacent to Lake Superior.																																				
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<b>38</b>	710 - Sand, Soil	None	14.3			No	High sand bluff along Lake Superior.																																				
<b>39</b>	730 - Mud Flats	None	24.5			No	Low sand beach, eroding with weather and water action.																																				
<b>40</b>	730 - Mud Flats	None	8.2			No	Low sand beach, eroding with weather and water action.																																				
<b>41</b>	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	4.1	136	81-110	N/A	Stand is on sand ridges directly adjacent to Lake Superior.																																				
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42	622 - Lowland Shrub	None	18.2			No	Lowland with some small ridges with trees.																																		
43	500 - Water	None	23.8			No	Weatherhogs Lakes.																																		
44	622 - Lowland Shrub	None	7.6			No																																			
45	6122 - Black Spruce	Poletimber Medium	4.0	96		N/A																																			
46	622 - Lowland Shrub	None	4.4			No																																			
47	500 - Water	None	29.1			No	Weatherhogs Lakes.																																		
48	6122 - Black Spruce	Poletimber Medium	11.1	96		N/A	No access to this stand. Some small ridges within stand.																																		
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49	6224 - Treed Bog	None	19.5			No	Lowland with scattered trees.																																		
50	622 - Lowland Shrub	None	10.1			No	Lowland with scattered trees.																																		
51	42220 - Natural Jack Pine	Poletimber Medium	68.6	43	51-80	N/A	Originally cut in 1981 (#19-79A), scarified in 1982 (#42-34). Scattered red pine noted. Areas of full stocking and areas of medium stocking.																																		
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52	42220 - Natural Jack Pine	Poletimber Well	65.1	47	51-80	N/A	Originally cut in 1978 (#14-76A), scarified in 1978 (C-146).																																		
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53	622 - Lowland Shrub	None	5.0		Immature	No	Lowland along Betsy River.																																					
54	42120 - Planted Jack Pine	Poletimber Well	74.7	44	1-50	N/A	Machine planted in 1982 (42-065). Originally cut in 1976 (#10-75A).																																					
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55	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	12.0	50	1-50	N/A	On edge between sapling and pole size.																																					
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56	42220 - Natural Jack Pine	Sawtimber Well	17.4	96	51-80	N/A	Buffer along the Widewaters. Campsites found within stand. Patchy red pine within jack pine stand.																																					
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57	6229 - Mixed Lowland Shrub	None	22.0	0		No																																						
58	42210 - Natural Red Pine	Sawtimber Well	24.1	96	81-110	N/A	Pockets with jack pine regen; otherwise fairly open understory. Thinned in 1979 (#7-77A).																																					
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59	42220 - Natural Jack Pine	Poletimber Well	42.1	46	1-50	N/A	Just coming into pole size. Nice areas of mostly pure jack pine; other areas with residual red pine and occasional white pine left. Oak present. Cut in 1979 (#7-77A), and scarified in 1980 (42-169).																																					
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Sub-Canopy Species	Density	Avg. Height	Size																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>60</b>	42210 - Natural Red Pine	Sawtimber Well	66.7	96	111-140	N/A	Rolling hills, some steep. RP mixed with WP; occasional oak. Thinned in 1999 (#006-97).
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		5	Log/Pole	10		Red Maple	
White Pine		35	Log	15		Red Pine	
Red Pine		60	Log	14	96	White Pine	
						Red Oak	
						White Spruce	
						<b>Density</b>	
						<b>Avg. Height</b>	
						<b>Size</b>	
<b>61</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	25.5	90		N/A	Variable stand with cedar, spruce, balsam, hemlock and associated red maple. Hemlock pocket on southern end. Pockets of tag alder.
<b>62</b>	42210 - Natural Red Pine	Sawtimber Well	36.3	96	111-140	N/A	Mixed red pine with white pine; occasional oak. Varying densities. WP regen in areas. Thinned in 1999 (#006-97).
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		10	Pole/Log	8		Red Oak	
White Pine		30	Log/Pole	12		White Spruce	
Red Pine		60	Log	14	96	White Pine	
						<b>Density</b>	
						<b>Avg. Height</b>	
						<b>Size</b>	
<b>63</b>	42290 - Natural Mixed Pine	Sapling Poor	8.1	16	1-50	N/A	Cut in 2009 (West Pond Road JP #004-07).
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>		
Red Maple		5	Sapling	2			
Red Oak		17	Sapling/Pole	3			
White Pine		2	Log	14			
White Pine		11	Sapling	3			
Red Pine		25	Log	14			
Jack Pine		40	Sapling	2	16		
<b>64</b>	4310 - Pine, Oak Mix	Sawtimber Medium	15.0	91	81-110	N/A	Nice regen and poles in spots. Other areas with higher BA has little regen, but nice poles. Cut in 2009 (West Pond Mix #004-07).
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		40	Pole/Log	8		Red Maple	
Paper Birch		5	Pole	6		White Pine	
White Pine		15	Log	12		Red Oak	
Red Pine		40	Log	12	91		
						<b>Density</b>	
						<b>Avg. Height</b>	
						<b>Size</b>	
<b>65</b>	42120 - Planted Jack Pine	Sapling Poor	89.7	9	1-50	N/A	Regeneration Survey - 10/01/19: Fully stocked JP planting with very little mortality. Good component of paper birch and red oak in seedling/sapling age class (2 - 9 years old). Plantation check this fall Sept 2018. Fully stocked good survival. Trees look good in the stand. move to 3 yr check. Variable regeneration. Cut in 2009 (#004-07), scarified in fall 2009 (42-685). Regen count in 2013 - 1963 trees/acre. Regen count in 2015 - 238 trees/acre. Maintain intent to manage as natural stand in the future. Regen 2015: 137 TPA of jack pine, 246 TPA of white pine. 1041 TPA of oak. Planted to JP 5/4/2017 in trenches. Whole stand was not trenched; rows are wider than normal due to terrain. FTP 42-685.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		5	Pole	8		Red Pine	
White Pine		5	Log	10		Red Maple	
Red Pine		10	Log	12	96	Paper Birch	
Jack Pine		80	Sapling	1	9	White Pine	
						Jack Pine	
						Jack Pine	
						Red Oak	
						<b>Density</b>	
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						<b>Size</b>	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
<b>66</b>	42220 - Natural Jack Pine	Poletimber Well	34.9	46	1-50	N/A	Thick regen. On edge between pole and sapling size. Scattered residual WP and RP - mainly on eastern edge. Cut in 1980 (#3-77A). Notes say it was full tree harvested.																																					
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<b>67</b>	42220 - Natural Jack Pine	Poletimber Medium	12.4	33	Immature	N/A	Much less diverse than north side of the road. Cut in 1993 (#03-89).																																					
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<b>68</b>	4113 - R.Maple, Conifer	Poletimber Well	19.5	66	81-110	N/A	Slightly nicer red maple. Mostly single stem. Rolling terrain. Occasional cedar and large spruce.																																					
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<b>69</b>	42340 - Upland Spruce/Fir	Poletimber Well	10.7	96	51-80	N/A	Steep hillside with red maple, birch, white pine, balsam, spruce and cedar present.																																					
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<b>70</b>	42110 - Planted Red Pine	Sawtimber Well	36.1	66	141-170	N/A	Pole to log size RP. Occasional large remnant WP. WP stumps evident. JP can be found singly and in patches. Future management should mimic natural pine.																																					
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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>71</b>	4319 - Mixed Upland Forest	Poletimber Well	6.8	66	51-80	N/A	Younger red maple stand under some old, remnant WP. Clumpy red maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Pole/Sapling	6	66	Red Maple	Low	Variable	Variable
Paper Birch	10	Pole/Log	9		White Spruce	Low	Variable	Variable
Balsam Fir	8	Pole	8		Balsam Fir	Full	Variable	Variable
White Spruce	12	Pole	9					
White Pine	20	Log/XLog/Pole	14					
Red Pine	3	Log	12					
Jack Pine	2	Log/Pole	10					

<b>72</b>	4113 - R.Maple, Conifer	Poletimber Medium	4.5	66	1-50	N/A	Semi-open stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	75	Pole/Log	8	66
Balsam Fir	12	Pole	8	
White Spruce	3	Pole/Log	9	
White Pine	10	Log/Pole	12	

<b>73</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	7.4	61	1-50	N/A	Clumpy red maple. Not as much WP remnants as adjacent stand 72. Large spruce within stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Pole/Sapling	7	61	Balsam Fir	High	Variable	Variable
Paper Birch	15	Pole/Log	8					
Balsam Fir	10	Pole	7					
White Spruce	15	Pole/Log	9					
White Pine	15	Log	14					

<b>74</b>	500 - Water	None	3.2			No	Fluctuating water table. No water 9/24
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<b>75</b>	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	4.0	5	1-50	N/A	Stand harvested via Clearcut: West Vermillion Pine/Birch - 42-015-17.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	45	Sapling	1	5
Red Oak	5	Sapling	1	
Paper Birch	15	Sapling	1	
White Spruce	20	Pole	9	96
White Pine	10	Log	14	
Jack Pine	5	Sapling	1	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
<b>76</b>	42110 - Planted Red Pine	Poletimber Well	96.6	66	81-110	N/A	Stand harvested via Systematic thinning: West Vermillion Pine/Birch - 42-015-17. Some areas kind of thin BA; some areas of nice plantation BA. Scattered RP and WP remnant logs. Occasional WB and oak. Some areas heavier to jack pine. Future management should mimic natural pine.	
<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	Log/Pole	12		White Pine		
Red Pine		70	Pole/Log	9	66	Low		
Jack Pine		15	Pole	8		Variable		
<b>77</b>	4136 - Aspen, Mixed Conifer	Sapling Medium	27.8	25	Immature	N/A	Very diverse stand. Occasional JP and RP sapling. Intermittent gully crosses NE corner. NW corner lies just north of snowmobile trail. Cut in 2001 (#007-97). Split off from stand to west.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		5	Sapling	3		White Pine		
Paper Birch		25	Pole/Sapling	5		Low		
Bigtooth Aspen		40	Sapling	4	25	Variable		
Balsam Fir		2	Sapling	1		Variable		
White Spruce		10	Sapling	3				
White Pine		3	Sapling	2				
White Pine		15	Log	15				
<b>78</b>	330 - Low-Density Trees	None	1.3			No	Stand is saddled between two sand ridges. Opening is being encroached by trees. Variety of species: RM, Fb, Fs, WB, JP and WP.	
<b>79</b>	330 - Low-Density Trees	None	1.2			No	Stand is saddled between two sand ridges. Opening is being encroached by trees. Variety of species: RM, Fb, Fs, WB, JP and WP.	
<b>80</b>	330 - Low-Density Trees	None	2.2			No	Stand is saddled between two sand ridges. Opening is being encroached by trees. Variety of species: RM, Fb, Fs, WB, JP and WP.	
<b>81</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	30.5	96	81-110	N/A	Low quality red maple. Rolling terrain with some steep knobs. Adjacent to Michigan Nature Association lands.	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		85	Pole	8	96	Balsam Fir		
Balsam Fir		11	Pole	5		Full		
White Spruce		2	Log/Pole	12		Variable		
White Pine		2	Log	12		Variable		
<b>84</b>	4310 - Pine, Oak Mix	Poletimber Medium	15.7	33	Immature	N/A	More diverse than south of the road. Residual oak mainly on east half. Moderately steep ridge along road. Cut in 1993 (#032-89).	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>		
Red Maple		10	Sapling	3		White Pine		
Red Oak		20	Pole/Log/Sap	8		Low		
Paper Birch		15	Sapling	4		Variable		
Balsam Fir		2	Sapling	3		Variable		
White Pine		13	Sapling	4				
Jack Pine		40	Pole	6	33			
<b>85</b>	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	6.0	90		N/A	Variable stand with cedar, spruce, balsam, hemlock and associated red maple. Hemlock pocket on southern end. Pockets of tag alder.	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
86	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	8.4	90		N/A	Variable stand with cedar, spruce, balsam, hemlock and associated red maple. Hemlock pocket on southern end. Pockets of tag alder.																																														
87	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	69.4	96	81-110	N/A	Mix of hemlock, red maple, yellow birch with white pine, balsam/spruce and paper birch. Old roads have grown in considerably. Scattered low pockets that hold water seasonally. Thinned in 1979 (#12-79A).																																														
88	4119 - Mixed Northern Hardwoods	Sawtimber Well	9.9	96	81-110	N/A	Mix of red maple and yellow birch mainly. Poor quality trees. Thick maple understory. Some hard maple present. Thinned in 1979 (#12-79A). Adjacent to Jinny Palms Preserve. Old access roads are through the preserve and have grown in considerably.																																														
90	42110 - Planted Red Pine	Sawtimber Well	21.8	66	141-170	N/A	Variable density residual. Thinned in 2001 (#007-97), removing mostly red maple, birch, spruce and jack pine along with some red pine.																																														
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91	4319 - Mixed Upland Forest	Sapling Well	57.8	27	Immature	N/A	Scattered residual RP from cutting. Regen is variable, both species and density, but adequate. 10'-20' tall. Cut in winter of 1998 (#007-97). Stand was never scarified after harvest.																																														
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92	42220 - Natural Jack Pine	Poletimber Medium	16.1	61	51-80	N/A	Variable stand.																																														
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93	42210 - Natural Red Pine	Sawtimber Medium	16.4	96	1-50	N/A	Heavier residual of RP than adjacent cutting. Mostly part of West Pond Mix (#004-07), cut in 2009. Scarified in fall of 2009 (42-685). Regen check in 2013 showed 1963 trees/acre. Very eastern portion cut in 1993 (#032-89).																																														
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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>94</b>	4310 - Pine, Oak Mix	Sawtimber Medium	19.4	96	51-80	N/A	Higher residual BA than stand to the south. Cut in 2009 (#004-07), scarified in fall 2009 (42-685).
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	45	Pole/Log	8		Red Oak	Low	5 - 10 feet	5 - 10 feet
White Pine	5	Log/Pole	10		White Pine	Low	5 - 10 feet	5 - 10 feet
Red Pine	50	Log/Pole	11	96	Jack Pine	Low	< 5 feet	< 5 feet
					Balsam Fir	Low	Variable	Variable
					Red Maple	Low	5 - 10 feet	5 - 10 feet