

Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42054

Entry Year: 2027

Acreage: 2,069

County: Chippewa

Management Area: Grand Marais Moraine Complex

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.

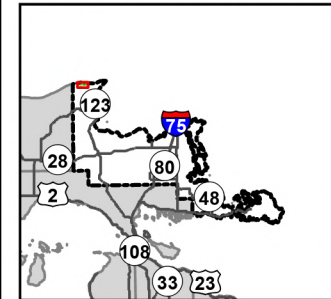
The following reports from the Inventory are attached:

- 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**

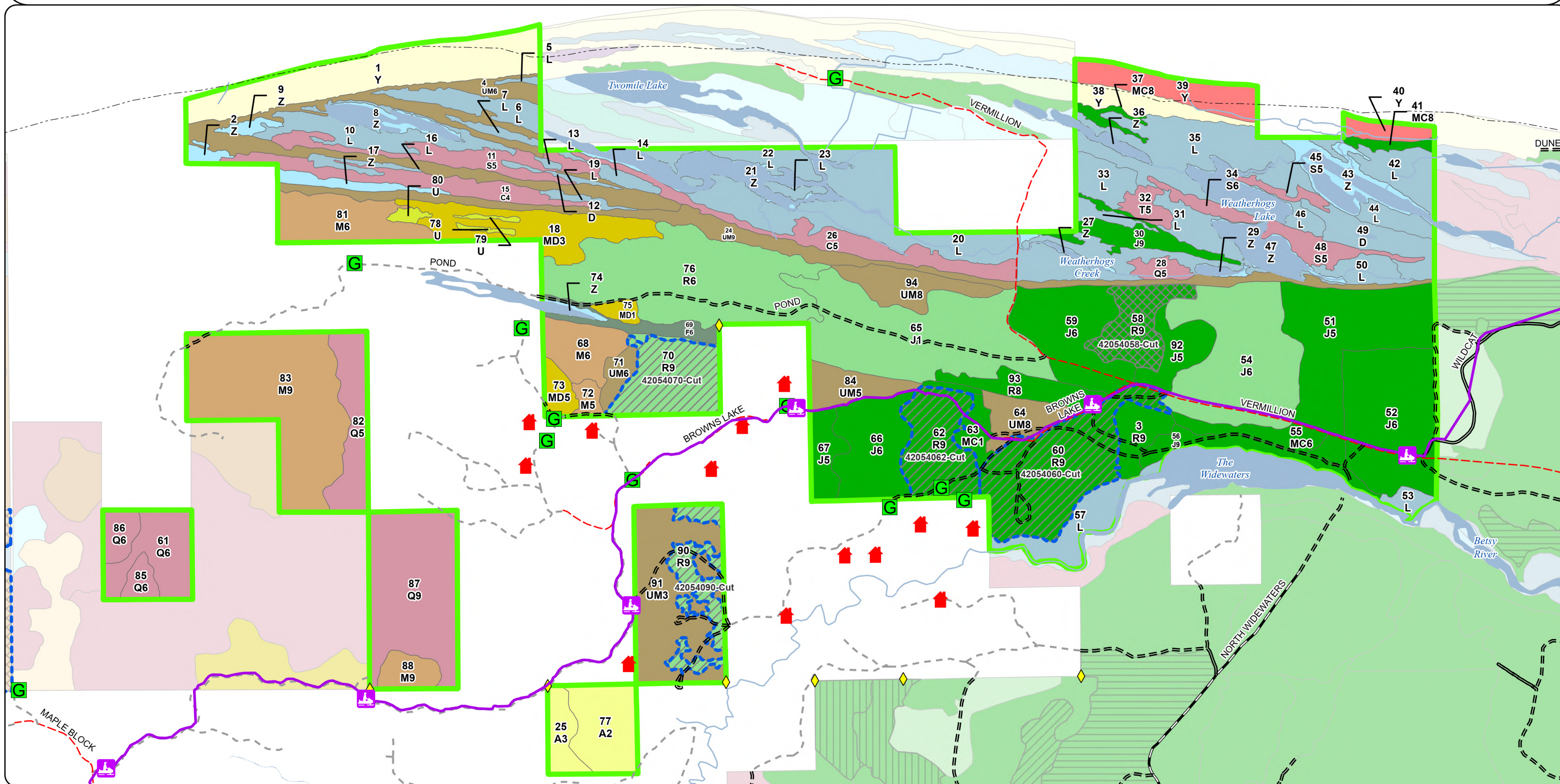
Cover Type & Treatments Map



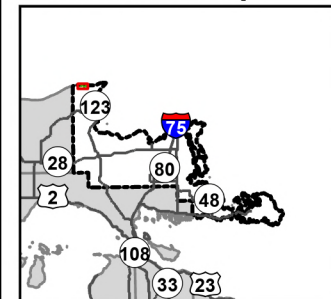
Compartment: 42054
T50N R07W 01-04, 09-12, 15
County: Chippewa
Unit: Newberry
Mgmt. Area: Grand Marais Moraine Complex
YOE: 2027
Acres: 2,069 GIS Calculated
Examiner: Amy Livermore
Date Exported: 08/19/2025
Map Phase: Web Post

0 0.5 1 Miles

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



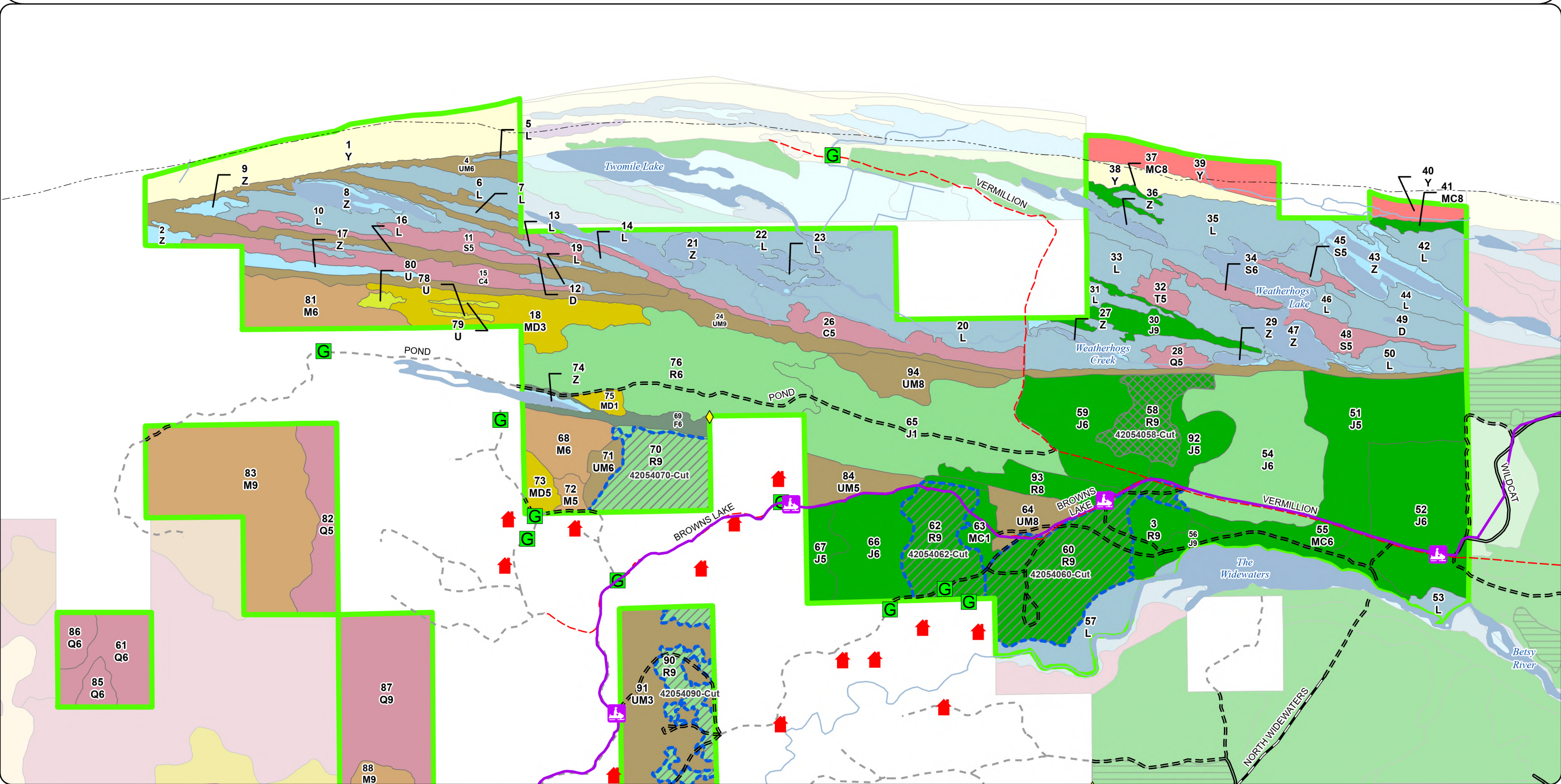
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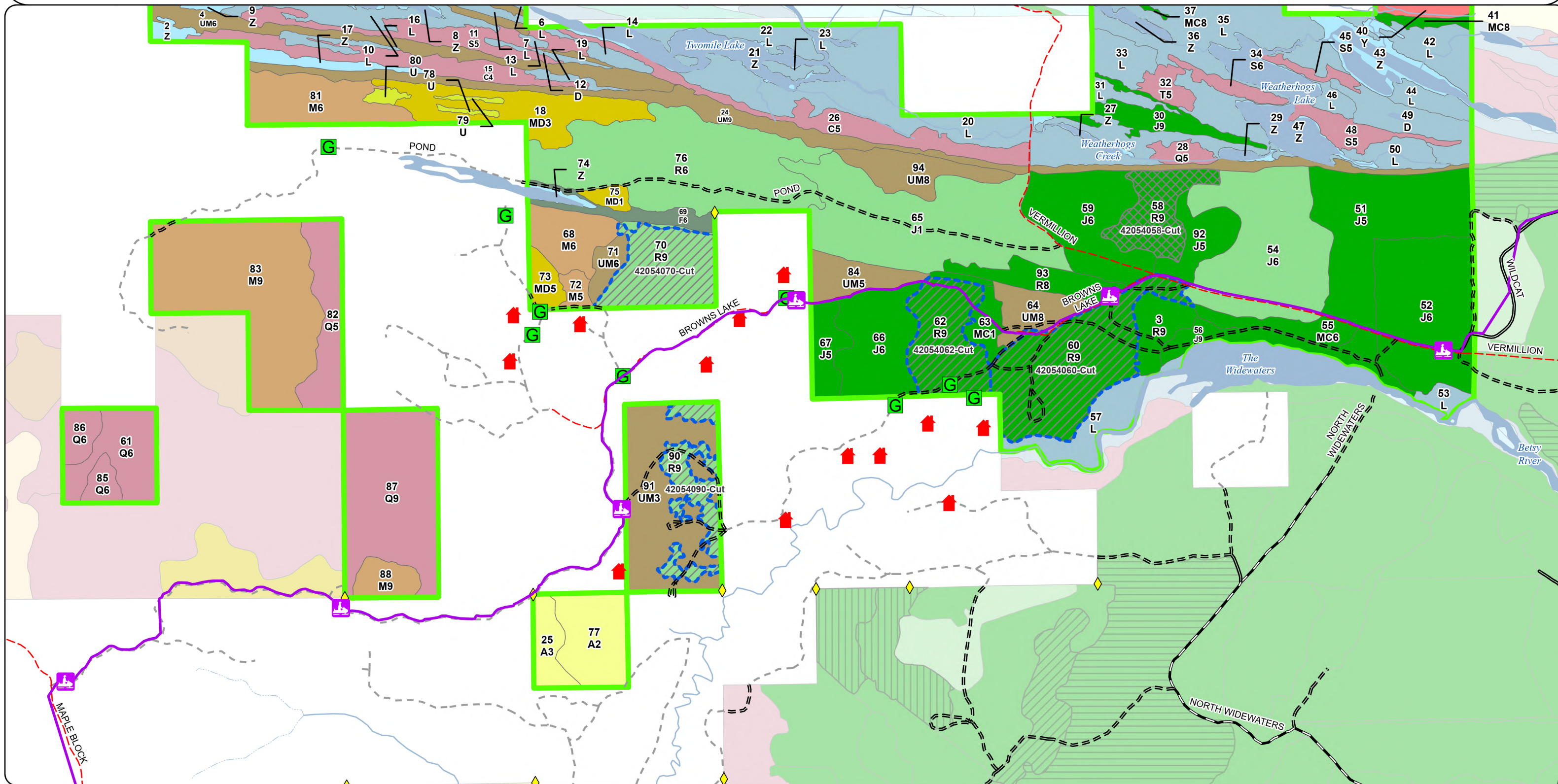
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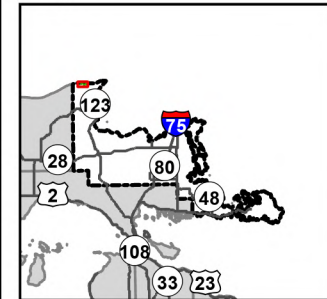


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Stand Boundary Map

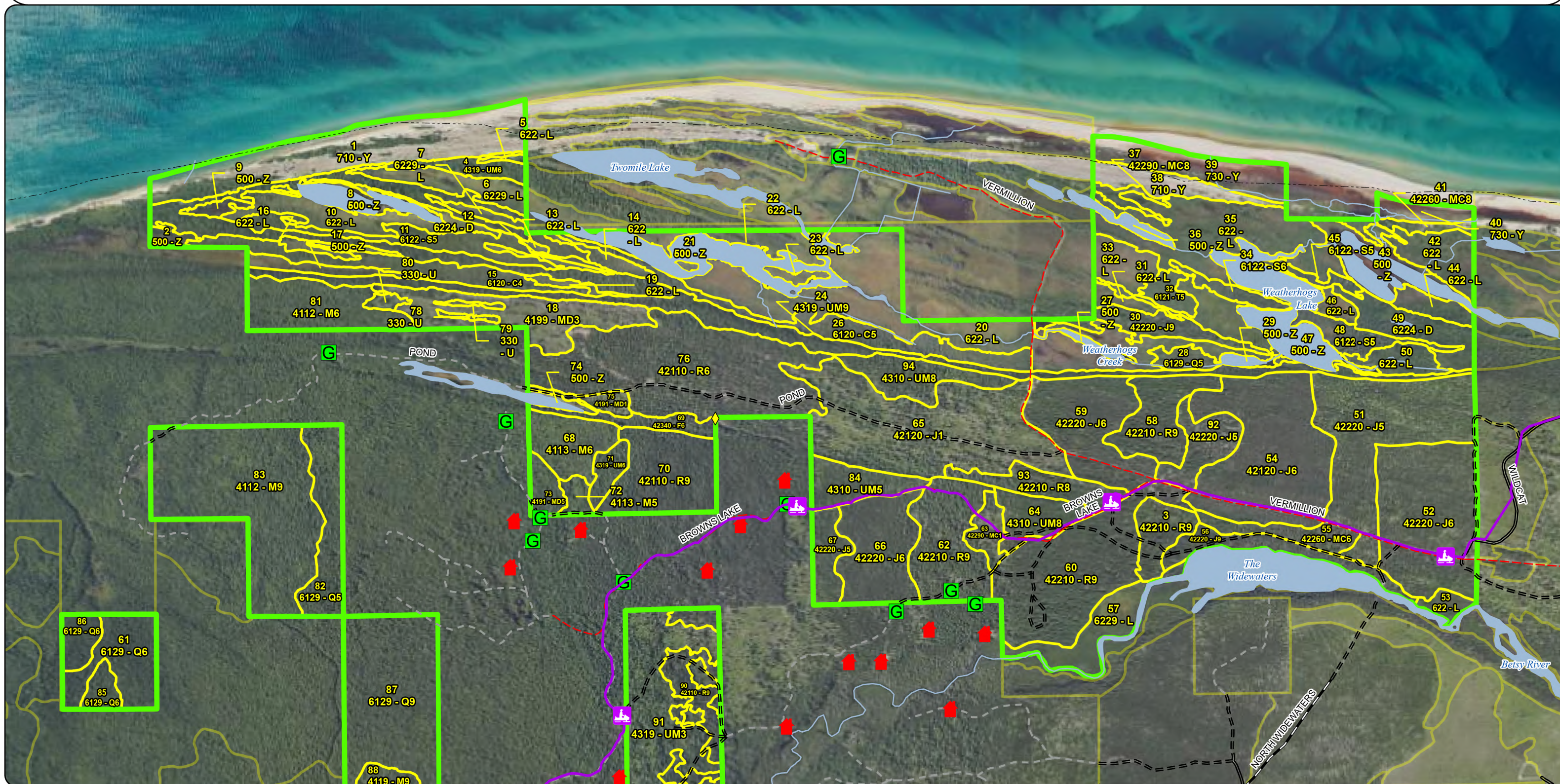


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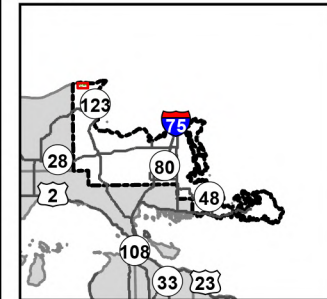
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- Gate
- Designated Snowmobile Trails
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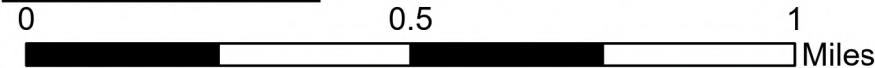
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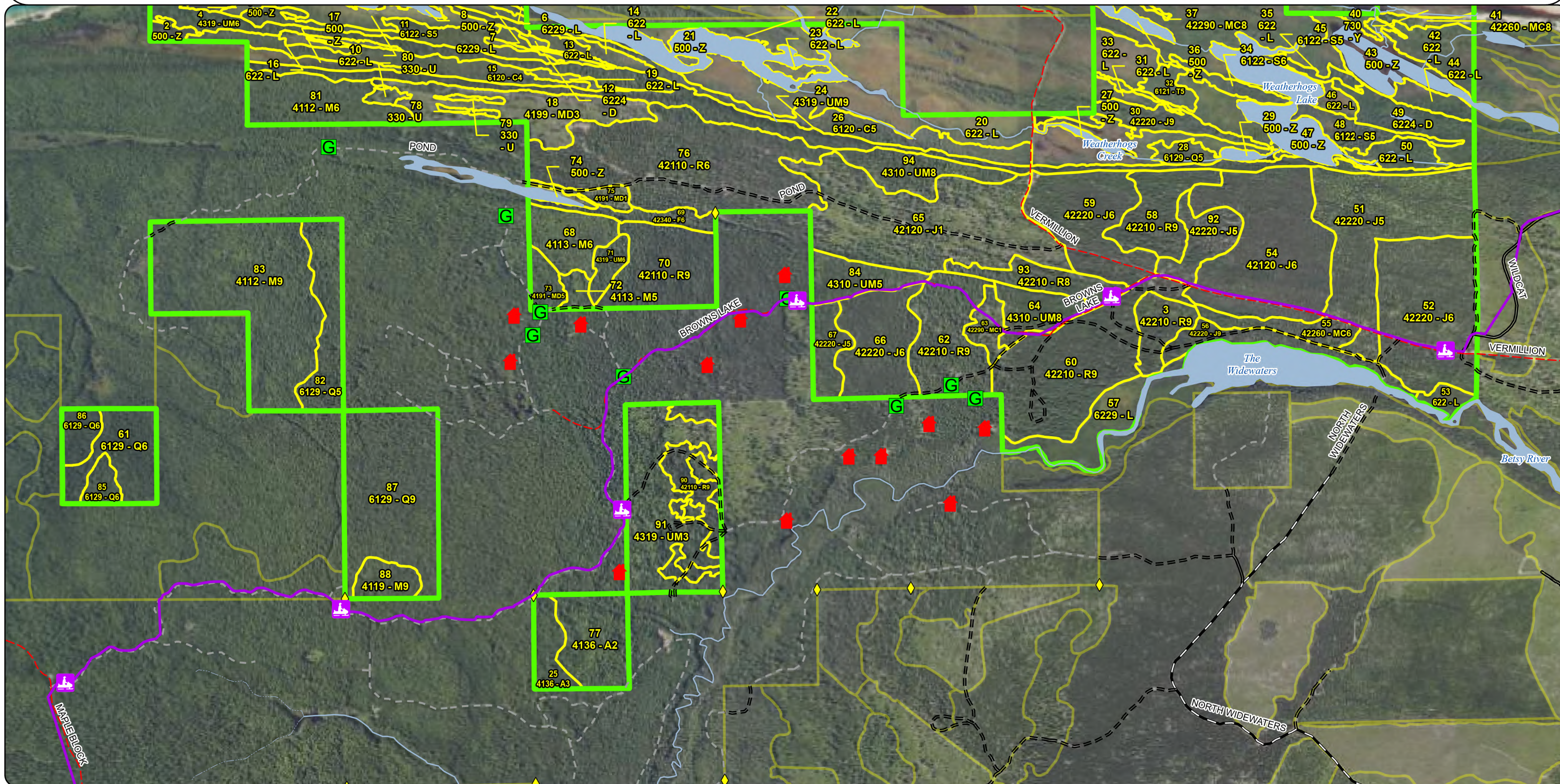
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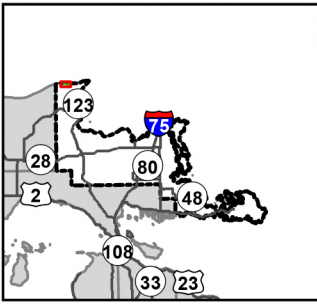


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Special Conservation Areas & Site Conditions Map

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0 0.5 1
Miles

Survey Grade Corners

Cabin

Gate

Designated Snowmobile Trails

DNR - Primary Forest Road

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Perennial River

Lakes and Rivers

Counties

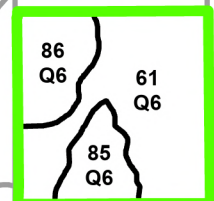
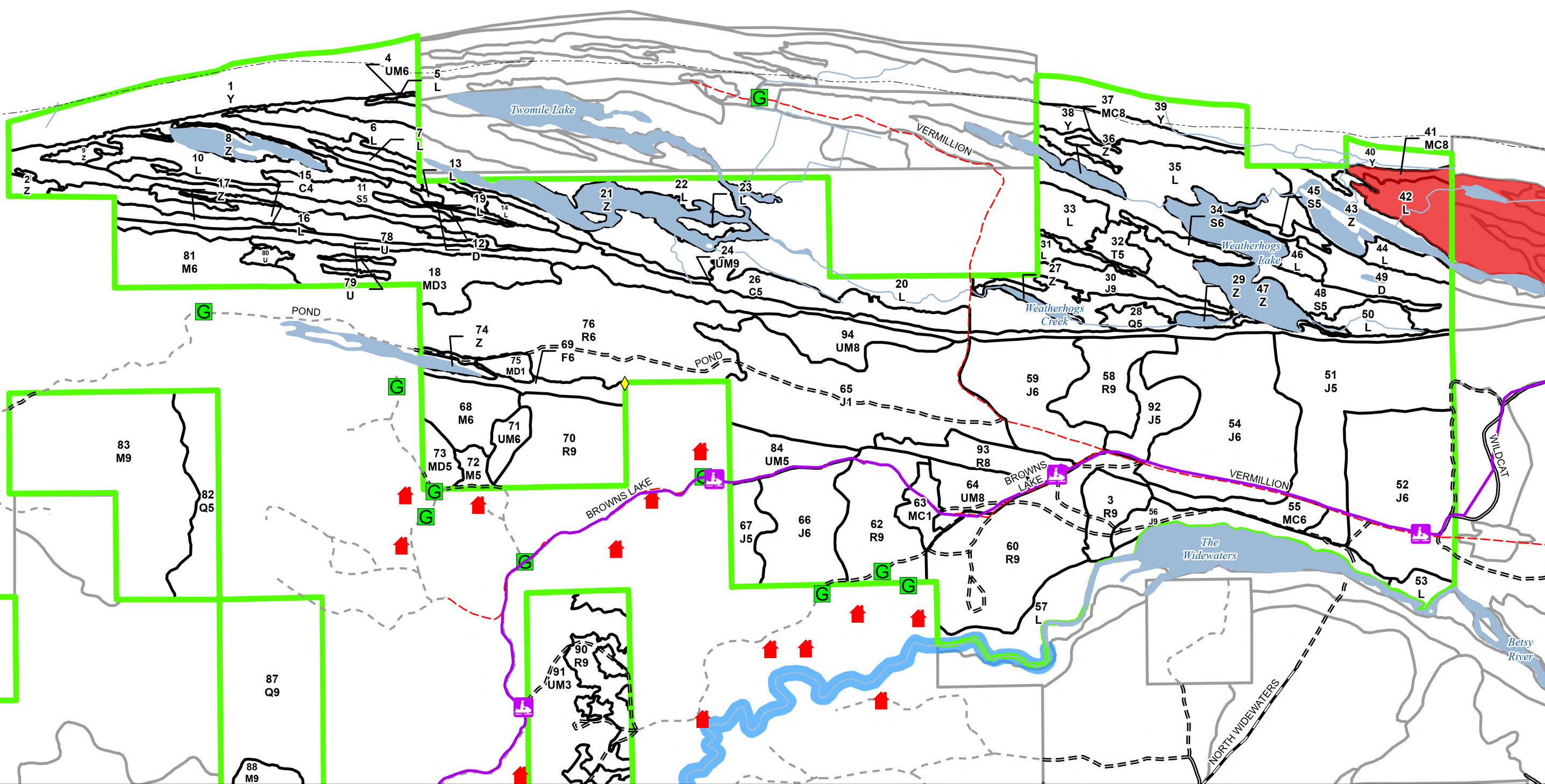
Compartment Boundary

Stand Boundaries

Ecological Reference Areas

Cold Water Streams

High Priority Trout Stream Buffer



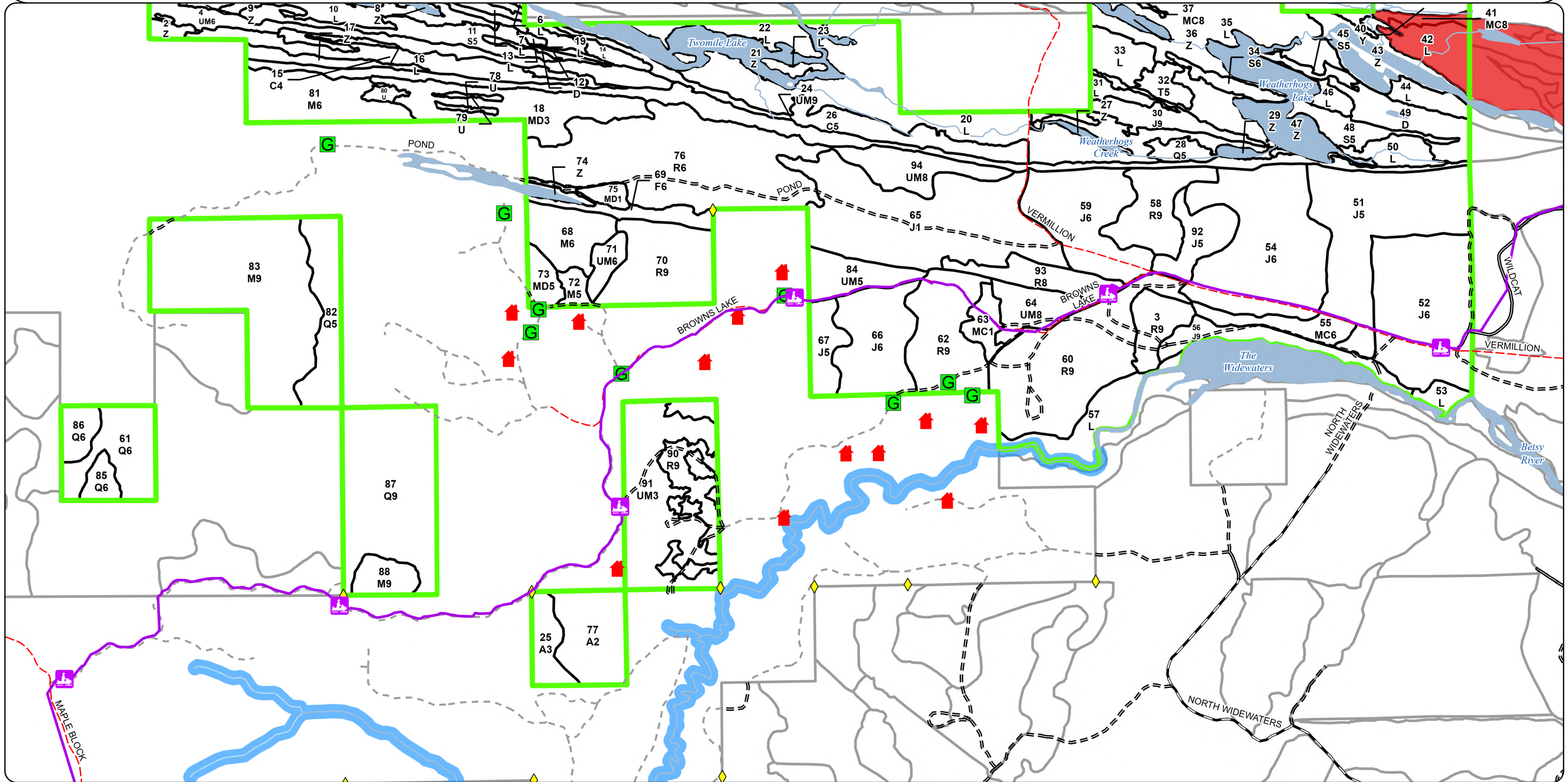
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- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class

Compartment 54 Year of Entry 2027

	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+	Unseen-Aged	Total
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	40	101	0	0	0	0	0	0	0	141
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	12	0	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	94	158
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
Total	572	131	8	98	28	298	0	210	23	40	562	0	0	0	8	0	0	94	2069

Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 54
Total Compartment Acres: 2,069

Commercial Harvest - 70
Harvests with Site Condition - 136
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversory Removal	Salvage	Other	Total Acres
Red Pine		0	24	0	0	0	158	0	0	0	182
	Total	0	24	0	0	0	158	0	0	0	182

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		182	0	0	0	0	0	0	0	0	182
Next Step		0	0	0	0	0	24	0	0	0	24
	Total	182	0	0	0	0	24	0	0	0	206

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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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Proposed Treatments:

58	42054058-Cut	24.1	42210 - Natural Red Pine	9	95	81-110	Harvest	Selection	42210 - Natural Red Pine	Planting Record	No
<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. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> red pine, white pine, oak <u>Regen:</u> <u>Other</u> Natural pine guidance: Expanding Gap <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
60	42054060-Cut	66.7	42210 - Natural Red Pine	9	95	111-140	Harvest	Thinning	42210 - Natural Red Pine	Planting Record	No
<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. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> red pine, white pine with oak, aspen and jack pine. <u>Regen:</u> <u>Other</u> Treatment size may change due to topography in the stand. Natural pine guidance: Expanding gap <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026											
62	42054062-Cut	34.4	42210 - Natural Red Pine	9	95	111-140	Harvest	Thinning	42210 - Natural Red Pine	Planting Record	No
<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 and retain a component of limby larger white pine for bear escape trees. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Natural Pine Guidance: Thinning <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026											
70	42054070-Cut	34.7	42110 - Planted Red Pine	9	65	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<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											

Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
90 42054090-Cut	21.8	42110 - Planted Red Pine	9	65	141-170	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<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>										
<u>Proposed Start Date:</u> 10/01/2026										

Total Treatment
Acreage Proposed: 181.7

Report 4 – Site Conditions



Availability for Management

Total	Acres	Acres Avail	Acres	Dominant Site Conditions							
Acres	Available	With Condition	Not Available		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							
141	0	0	141	Lowland Conifers						141	
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	
158	55	0	104	Northern Hardwood						104	
310	156	152	2	Red Pine	36	101	15		2		
114	0	0	114	Sand, Soil						114	
7	0	0	7	Tamarack						7	
22	0	0	22	Treed Bog						22	
215	80	33	102	Upland Mixed Forest			33		45	58	
8	0	0	8	Upland Spruce/Fir					8		
119	3	0	116	Water						116	
2,059	822	201	1,037	Total Forested Acres	36	101	48	16	54	965	17
	40%	10%	50%	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
Comments:								
2	Unavailable		2F: Too steep	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Livermore: Examiner

Compartment: 54
Year of Entry: 2027



3	Unavailable	2F: Too steep	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3A: Conservation values incompatible with harvest at this time	240	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 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	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	17	3D: Recreational/scenic values	Unspecified	Unspecified	Unspecified
Comments: Area is used by dispersed campers and fisherman. Overlooks the Widewaters.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	2I: Survey needed	67	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 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
Comments:							
10	Available	2B: Unknown if access through adjacent landowner(s) is possible	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	2B: Unknown if access through adjacent landowner(s) is possible	80	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Bluff buffer 30 feet.							

Report 4 – Site Conditions



20	Unavailable	3A: Conservation values incompatible with harvest at this time	725	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

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.

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

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	95	1-50	N/A	Good regen under scattered red pine. Cut in 1993 (#32-89).																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>5</td><td></td><td>13</td><td></td><td>Jack Pine</td><td>Full</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Oak</td><td>10</td><td>Seedling</td><td>8</td><td></td><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Pine</td><td>85</td><td></td><td>15</td><td>95</td><td>Paper Birch</td><td>Low</td><td>Variable</td><td>Variable</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	5		13		Jack Pine	Full	Variable	Variable	Red Oak	10	Seedling	8		Red Maple	Medium	Variable	Variable	Red Pine	85		15	95	Paper Birch	Low	Variable	Variable
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																			
White Pine	5		13		Jack Pine	Full	Variable	Variable																																			
Red Oak	10	Seedling	8		Red Maple	Medium	Variable	Variable																																			
Red Pine	85		15	95	Paper Birch	Low	Variable	Variable																																			
4	4319 - Mixed Upland Forest	Poletimber Well	57.8	90	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	70		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	95		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	4	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.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>5</td><td></td><td>11</td><td></td></tr><tr><td>Red Maple</td><td>55</td><td>Log</td><td>1</td><td>4</td></tr><tr><td>White Pine</td><td>10</td><td></td><td>15</td><td>91</td></tr><tr><td>White Spruce</td><td>5</td><td>Log</td><td>2</td><td></td></tr><tr><td>Paper Birch</td><td>25</td><td>Log</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	5		11		Red Maple	55	Log	1	4	White Pine	10		15	91	White Spruce	5	Log	2		Paper Birch	25	Log	1											
Canopy Species	% Cover	Size Class	DBH	Age																																											
Red Oak	5		11																																												
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White Pine	10		15	91																																											
White Spruce	5	Log	2																																												
Paper Birch	25	Log	1																																												
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	95	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.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Spruce</td><td>10</td><td></td><td>10</td><td></td></tr><tr><td>Northern White Cedar</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Jack Pine</td><td>5</td><td></td><td>11</td><td></td></tr><tr><td>Red Pine</td><td>15</td><td></td><td>14</td><td></td></tr><tr><td>Red Maple</td><td>45</td><td></td><td>12</td><td>95</td></tr><tr><td>White Pine</td><td>10</td><td></td><td>15</td><td></td></tr><tr><td>Paper Birch</td><td>10</td><td></td><td>10</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Black Spruce	10		10		Northern White Cedar	5		12		Jack Pine	5		11		Red Pine	15		14		Red Maple	45		12	95	White Pine	10		15		Paper Birch	10		10	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
32	6121 - Tamarack	Poletimber Medium	6.7	95	51-80	N/A																																					
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33	622 - Lowland Shrub	None	11.8			No																																					
34	6122 - Black Spruce	Poletimber Well	6.0	95		N/A																																					
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35	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.																																				
36	500 - Water	None	4.1			No																																					
37	42290 - Natural Mixed Pine	Sawtimber Medium	4.1	135	81-110	N/A	Stand is on sand ridges directly adjacent to Lake Superior.																																				
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Red Pine	50		14	135																																							
Jack Pine	20	Seedling	8																																								
38	710 - Sand, Soil	None	14.3			No	High sand bluff along Lake Superior.																																				
39	730 - Mud Flats	None	24.5			No	Low sand beach, eroding with weather and water action.																																				
40	730 - Mud Flats	None	8.2			No	Low sand beach, eroding with weather and water action.																																				
41	42260 - Natural Pine, Mixed Deciduous	Sawtimber Medium	4.1	135	81-110	N/A	Stand is on sand ridges directly adjacent to Lake Superior.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
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	95		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	95		N/A	No access to this stand. Some small ridges within stand.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>10</td><td></td><td>14</td><td></td><td>Black Spruce</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Paper Birch</td><td>5</td><td>Seedling</td><td>8</td><td></td><td>Tag Alder</td><td>High</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Tamarack</td><td>5</td><td>Seedling</td><td>8</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Black Spruce</td><td>80</td><td>Seedling</td><td>8</td><td>95</td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	10		14		Black Spruce	Medium	Variable	Variable	Paper Birch	5	Seedling	8		Tag Alder	High	5 - 10 feet	5 - 10 feet	Tamarack	5	Seedling	8						Black Spruce	80	Seedling	8	95													
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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	42	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.																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Oak</td><td>8</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Paper Birch</td><td>5</td><td>Log</td><td>4</td><td></td></tr><tr><td>Red Maple</td><td>2</td><td>Sapling</td><td>5</td><td></td></tr><tr><td>Jack Pine</td><td>85</td><td>Sapling</td><td>6</td><td>42</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	8	Sapling	5		Paper Birch	5	Log	4		Red Maple	2	Sapling	5		Jack Pine	85	Sapling	6	42																													
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52	42220 - Natural Jack Pine	Poletimber Well	65.1	46	51-80	N/A	Originally cut in 1978 (#14-76A), scarified in 1978 (C-146).																																																						
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Oak</td><td>5</td><td></td><td>8</td><td></td><td>Red Oak</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Jack Pine</td><td>80</td><td>Seedling</td><td>7</td><td>46</td><td></td><td></td><td></td><td></td></tr><tr><td>Red Pine</td><td>10</td><td></td><td>14</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Red Maple</td><td>2</td><td>Log</td><td>3</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Paper Birch</td><td>3</td><td>Log</td><td>3</td><td></td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Red Oak	5		8		Red Oak	Low	< 5 feet	< 5 feet	Jack Pine	80	Seedling	7	46					Red Pine	10		14						Red Maple	2	Log	3						Paper Birch	3	Log	3					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
53	622 - Lowland Shrub	None	5.0		Immature	No	Lowland along Betsy River.																																					
54	42120 - Planted Jack Pine	Poletimber Well	74.7	43	1-50	N/A	Machine planted in 1982 (42-065). Originally cut in 1976 (#10-75A).																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>94</td><td>Seedling</td><td>6</td><td>43</td></tr><tr><td>Paper Birch</td><td>1</td><td>Pole</td><td>4</td><td></td></tr><tr><td>Red Pine</td><td>5</td><td></td><td>14</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	94	Seedling	6	43	Paper Birch	1	Pole	4		Red Pine	5		14																		
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55	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	12.0	49	1-50	N/A	On edge between sapling and pole size.																																					
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Red Maple	3	Log	4																																									
56	42220 - Natural Jack Pine	Sawtimber Well	17.4	95	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	95	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	45	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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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
60	42210 - Natural Red Pine	Sawtimber Well	66.7	95	111-140	N/A	Rolling hills, some steep. RP mixed with WP; occasional oak. Thinned in 1999 (#006-97).																																																						
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61	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	25.5	89		N/A	Variable stand with cedar, spruce, balsam, hemlock and associated red maple. Hemlock pocket on southern end. Pockets of tag alder.																																																						
62	42210 - Natural Red Pine	Sawtimber Well	36.3	95	111-140	N/A	Mixed red pine with white pine; occasional oak. Varying densities. WP regen in areas. Thinned in 1999 (#006-97).																																																						
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63	42290 - Natural Mixed Pine	Sapling Poor	8.1	15	1-50	N/A	Cut in 2009 (West Pond Road JP #004-07).																																																						
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64	4310 - Pine, Oak Mix	Sawtimber Medium	15.0	90	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).																																																						
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65	42120 - Planted Jack Pine	Sapling Poor	89.7	8	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.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
66	42220 - Natural Jack Pine	Poletimber Well	34.9	45	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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		2	Sapling	5		White Pine		Low	5 - 10 feet	5 - 10 feet
Red Pine		3		14		Red Pine		Low	5 - 10 feet	5 - 10 feet
Jack Pine		93	Seedling	6	45	Red Maple		Low	Variable	Variable
White Pine		2		14						
67	42220 - Natural Jack Pine	Poletimber Medium	12.4	32	Immature	N/A	Much less diverse than north side of the road. Cut in 1993 (#032-89).			
Canopy Species		% Cover	Size Class	DBH	Age					
White Pine		2	Log	4						
Jack Pine		98	Seedling	6	32					
68	4113 - R.Maple, Conifer	Poletimber Well	19.5	65	81-110	N/A	Slightly nicer red maple. Mostly single stem. Rolling terrain. Occasional cedar and large spruce.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Red Maple		73	Seedling	8	65	Balsam Fir	High	Variable	Variable	
Paper Birch		2		12						
White Spruce		2	Seedling	8						
Balsam Fir		18	Seedling	8						
White Pine		5		16						
69	42340 - Upland Spruce/Fir	Poletimber Well	10.7	95	51-80	N/A	Steep hillside with red maple, birch, white pine, balsam, spruce and cedar present.			
Canopy Species		% Cover	Size Class	DBH	Age					
Black Spruce		40	Seedling	7	95					
Red Maple		25	Sapling	6						
Paper Birch		10		9						
Balsam Fir		25	Seedling	6						
70	42110 - Planted Red Pine	Sawtimber Well	36.1	65	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.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
Jack Pine		20	Seedling	9		Balsam Fir	Low	Variable	Variable	
Red Pine		75		10	65	White Spruce	Low	Variable	Variable	
White Pine		5		14		Red Maple	Low	Variable	Variable	
						Paper Birch	Low	Variable	Variable	

Stand	Level 4 Cover Type	Size Density		Acres	Stand Age	BA Range	Managed Site	General Comments		
71	4319 - Mixed Upland Forest	Poletimber Well		6.8	65	51-80	N/A	Younger red maple stand under some old, remnant WP. Clumpy red maple.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Spruce		12	Seedling	9		White Spruce	Low		Variable	Variable
Red Maple		45	Sapling	6	65	Balsam Fir	Full		Variable	Variable
White Pine		20		14		Red Maple	Low		Variable	Variable
Paper Birch		10		9						
Red Pine		3		12						
Balsam Fir		8	Seedling	8						
Jack Pine		2		10						
72	4113 - R.Maple, Conifer	Poletimber Medium		4.5	65	1-50	N/A	Semi-open stand.		
Canopy Species		% Cover	Size Class	DBH	Age					
Red Maple		75		8	65					
White Spruce		3		9						
Balsam Fir		12	Seedling	8						
White Pine		10		12						
73	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium		7.4	60	1-50	N/A	Clumpy red maple. Not as much WP remnants as adjacent stand 72. Large spruce within stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Spruce		15		9		Balsam Fir	High	Variable	Variable	
White Pine		15		14						
Paper Birch		15		8						
Balsam Fir		10	Seedling	7						
Red Maple		45	Sapling	7	60					
74	500 - Water	None		3.2			No	Fluctuating water table. No water 9/24		
75	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor		4.0	4	1-50	N/A	Stand harvested via Clearcut: West Vermillion Pine/Birch - 42-015-17.		
Canopy Species		% Cover	Size Class	DBH	Age					
Paper Birch		15	Log	1						
White Pine		10		14						
Red Oak		5	Log	1						
White Spruce		20	Seedling	9	95					
Jack Pine		5	Log	1						
Red Maple		45	Log	1	4					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
76	42110 - Planted Red Pine	Poletimber Well	96.6	65	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.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Jack Pine		15	Seedling	8		White Pine		Low	Variable	Variable	
Red Pine		70		9	65						
White Pine		15		12							
77	4136 - Aspen, Mixed Conifer	Sapling Medium	27.8	24	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.				
Canopy Species		% Cover	Size Class	DBH	Age						
White Spruce		10	Log	3							
White Pine		15		15							
Bigtooth Aspen		40	Log	4	24						
Paper Birch		25	Sapling	5							
Red Maple		5	Log	3							
Balsam Fir		2	Log	1							
White Pine		3	Log	2							
78	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.			
79	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.				
80	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.				
81	4112 - Maple, Beech, Cherry Association	Poletimber Well	30.5	95	81-110	N/A	Low quality red maple. Rolling terrain with some steep knobs. Adjacent to Michigan Nature Association lands.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		85	Seedling	8	95	White Pine		Low	Variable	Variable	
White Spruce		2		12		Balsam Fir		Full	Variable	Variable	
Balsam Fir		11	Seedling	5		White Spruce		Low	Variable	Variable	
White Pine		2		12							
82	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	26.7	95	81-110	N/A	More diverse stand following drainage. Cut heavy in the late 1970's.				
83	4112 - Maple, Beech, Cherry Association	Sawtimber Well	93.7	95	81-110	N/A	Nice looking hardwood stand. Understory is tall enough to see under. Large YB left. Occasional spruce, balsam and hemlock. Nice YB regen along the roads. Some areas of lower ground within stand. Adjacent to the Jinny Palms Nature Preserve. Last thinned in the late 1970's. Notes from 1995 indicate that stand was cut on a 16" stump in 1980. Somewhat lower ground in NW corner.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Yellow Birch		15		16		White Spruce		Low	Variable	Variable	
Red Maple		15		14		Yellow Birch		Low	>20 feet	>20 feet	
Sugar Maple		70		14	95	Sugar Maple		High	>20 feet	>20 feet	
						Red Maple		Low	>20 feet	>20 feet	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
84	4310 - Pine, Oak Mix	Poletimber Medium	15.7	32	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).																																																		
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Paper Birch</td><td>15</td><td>Log</td><td>4</td><td></td></tr><tr><td>Red Maple</td><td>10</td><td>Log</td><td>3</td><td></td></tr><tr><td>Red Oak</td><td>20</td><td></td><td>8</td><td></td></tr><tr><td>Jack Pine</td><td>40</td><td>Seedling</td><td>6</td><td>32</td></tr><tr><td>Balsam Fir</td><td>2</td><td>Log</td><td>3</td><td></td></tr><tr><td>White Pine</td><td>13</td><td>Log</td><td>4</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Paper Birch	15	Log	4		Red Maple	10	Log	3		Red Oak	20		8		Jack Pine	40	Seedling	6	32	Balsam Fir	2	Log	3		White Pine	13	Log	4																
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85	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	6.0	89		N/A	Variable stand with cedar, spruce, balsam, hemlock and associated red maple. Hemlock pocket on southern end. Pockets of tag alder.																																																		
86	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	8.4	89		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	95	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	95	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	65	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	26	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	60	51-80	N/A	Variable stand.																																																
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93	42210 - Natural Red Pine	Sawtimber Medium	16.4	95	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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94	4310 - Pine, Oak Mix	Sawtimber Medium	19.4	95	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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