



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54140

Entry Year 2018

Acreage: 1,105

County Presque Isle

Management Area: Alpena Lake Plain

Revision Date: 2016-06-09

Stand Examiner: Darrick Coy

Legal Description:

T34N, R7E, Sec. 22-24,27,&34

T33N, R7E, Section 3

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan. Management within this compartment is limited due to the poor access, rocky limestone soils with poor nutrient availability, many unique natural features, and Limestone Bedrock Glade High Conservation Value Area (HCVA) and Ecological Reference Area (ERA).

Soil and topography:

The major soils are mucky flaggy loams with bedrock substrate (26%), flaggy fine sandy loams (21%), and flaggy loams (12%) and other soils (31%). The topography of the compartment is mainly level with the compartment being predominately upland aspen, oak, and swamp conifers. There are occurrences of emergent limestone ridges with wet rocky drainages. Forest habitat types are primarily dominated by unclassified lowlands.

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

Mostly state owned to the west with private and resort ownerships to the east.

Unique Natural Features:

Limestone Bedrock Glade HCVA ERA

Rare and Endanger Species Present- Cooper's Milk Vetch and Dwarf Lake Iris

Potential Rare and Endangered Species Present- Grizzled Skipper and Calypso or Fairy-Slipper

Archeological, Historical, and Cultural Features:

Some sites exist. Contact the state historical preservation office for more information or reporting of new sites.

Special Management Designations or Considerations:

Limestone Bedrock Glade HCVA ERA- for detailed information on the management of this community visit http://www.dnr.state.mi.us/publications/pdfs/ForestsLandWater/Cmpt_Reviews/Atlanta/2010/draftERAMgtPlanAtlantaGrandLakeGlade.pdf to see the most recent approved version of the Grand Lake Glade Ecological Reference Area Management Plan.

Watershed and Fisheries Considerations:

The Grand Lake pike march and associated outlet (to Grand Lake) is near Stands 30/14. Maintain good access (for our operator) into the marsh, no timber harvesting.

Wildlife Habitat Considerations:

This compartment is an excellent opportunity to manage for wildlife. It is part of a multiple compartment, large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as black bear. Habitat components are primarily wet areas with a lowland cover type. We have not prescribed any treatments in this block which provides older age class timber which is beneficial to some species. Species which benefit from our management include white-tailed deer, black bear, bobcat, and many other game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel. The glacial drift thickness varies between 0 and 150 feet, and bedrock is at or near the surface across much of the area. Beneath the glacial drift are the Devonian Traverse Group, Bell Shale, and Dundee Limestone. The Traverse and Dundee are quarried for limestone nearby, and there is additional limestone potential within the compartment. There are many former gravel pits in the area, and potential appears to be good within the compartment. There has been some minor Niagaran reef production northwest of the compartment. Oil

and gas potential appears to be low within the compartment. There is currently no active leasing of state minerals in the area.

Vehicle Access:

Access to the interior of this compartment is considered poor and limited to a few two-tracks, powerline easements, and walking paths off Grand Lake Hwy and US Hwy 23.

Survey Needs:

None recommended at this time.

Recreational Facilities and Opportunities:

None other than hunting from local subdivisions to the east and surrounding areas.

Fire Protection:

Onaway and Alpena Field Offices and local VFDs are the dispatched units. In drought or extreme fire conditions this area could be of concern due to the poor access and high conifer composition.

Additional Compartment Information:

The following reports from the Inventory are attached:

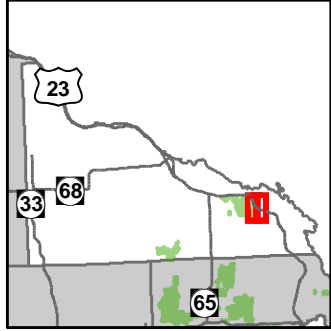
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

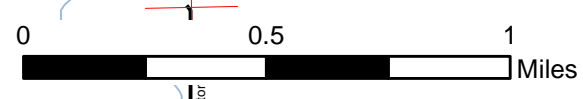
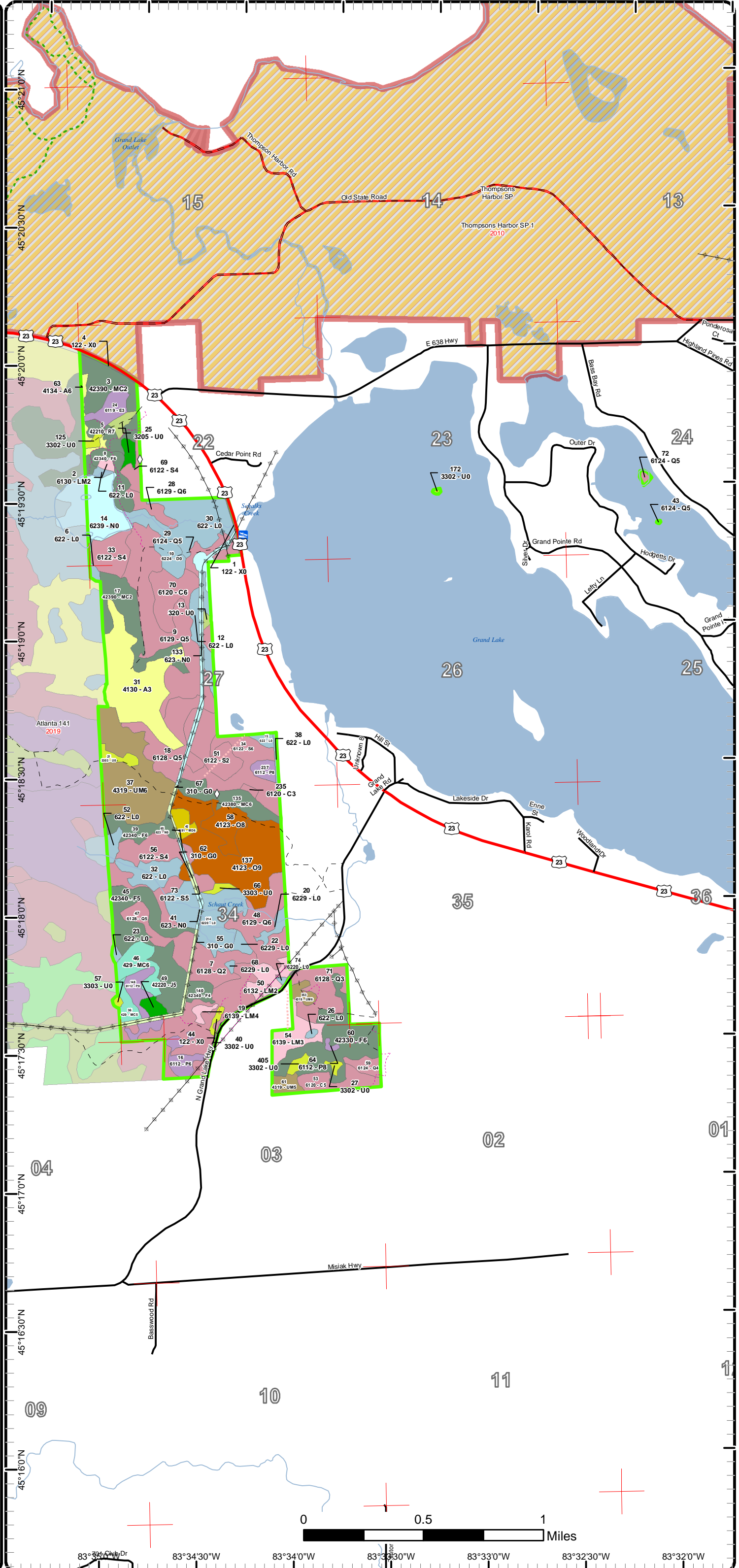
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 140
 T34N,R07W, Sec. 22-24, 27, 34
 T33N,R07W, Sec. 02-03
 County: Presque Isle
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
 YOE: 2018
 Acres: 1,105 GIS Calculated
 Examiner: Darrick Coy
 Map Revised: 10/6/2016
 Map Phase: Post Review



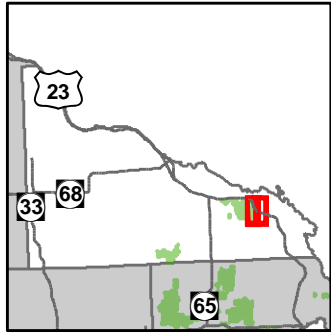
- Miris Corners
- ◇ Field Grade GPS Corners
- ⚓ Boating Access Site
- Highway
- Paved Roads
- Poor Dirt Roads
- Trail (Non-Recreation)
- - - Closed Roads
- Rivers
- Powerline
- Compartment Boundary
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes



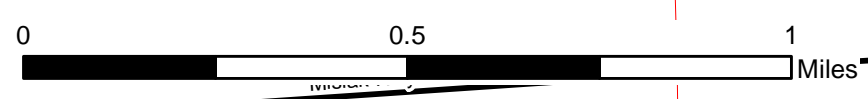
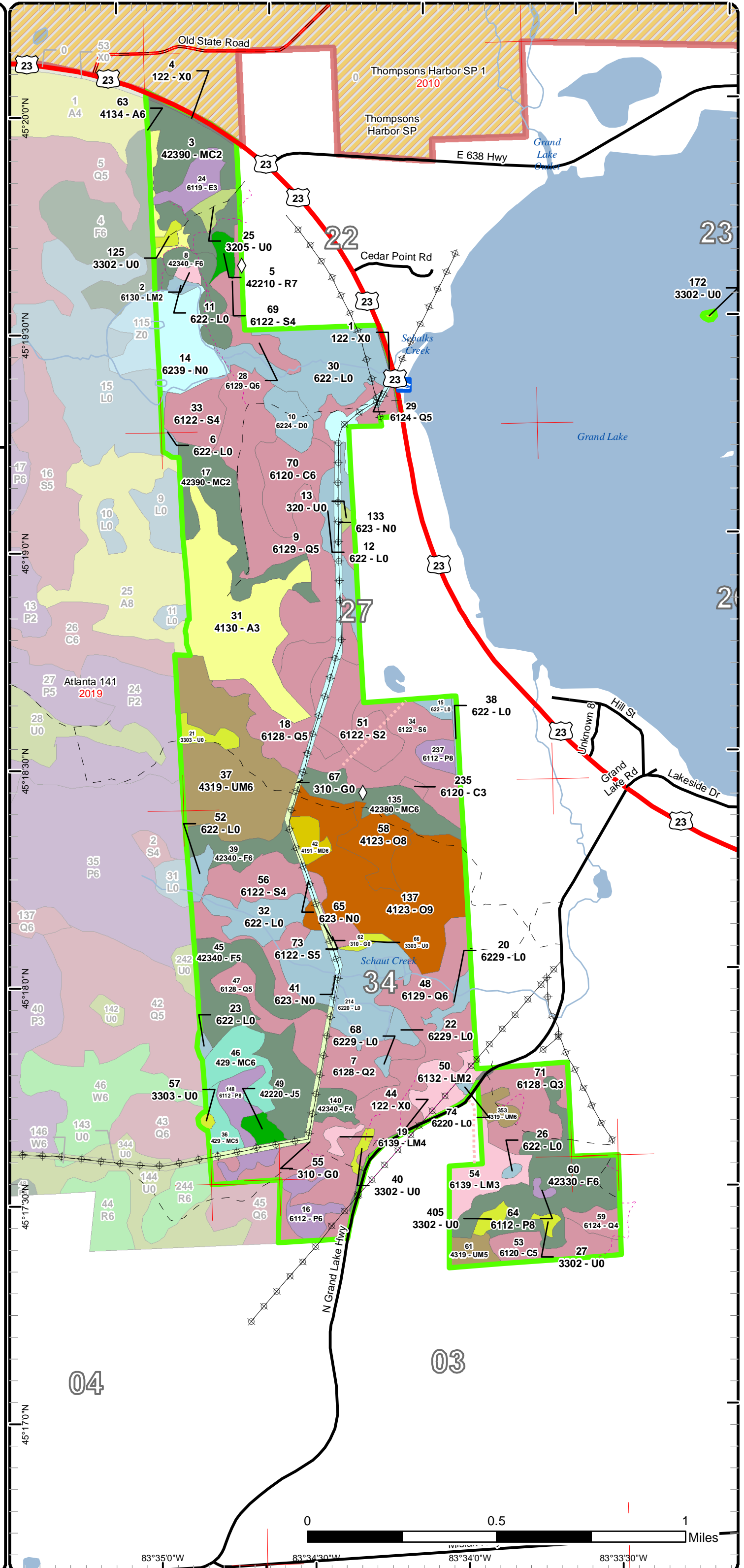
83°35'00"W 83°34'30"W 83°34'00"W 83°33'30"W 83°33'00"W 83°32'30"W 83°32'00"W

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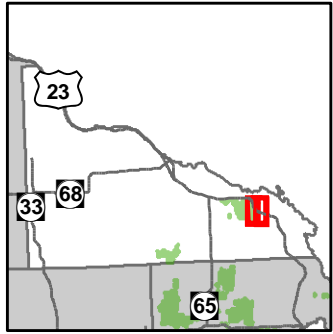
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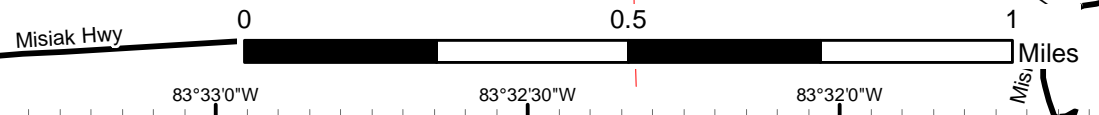
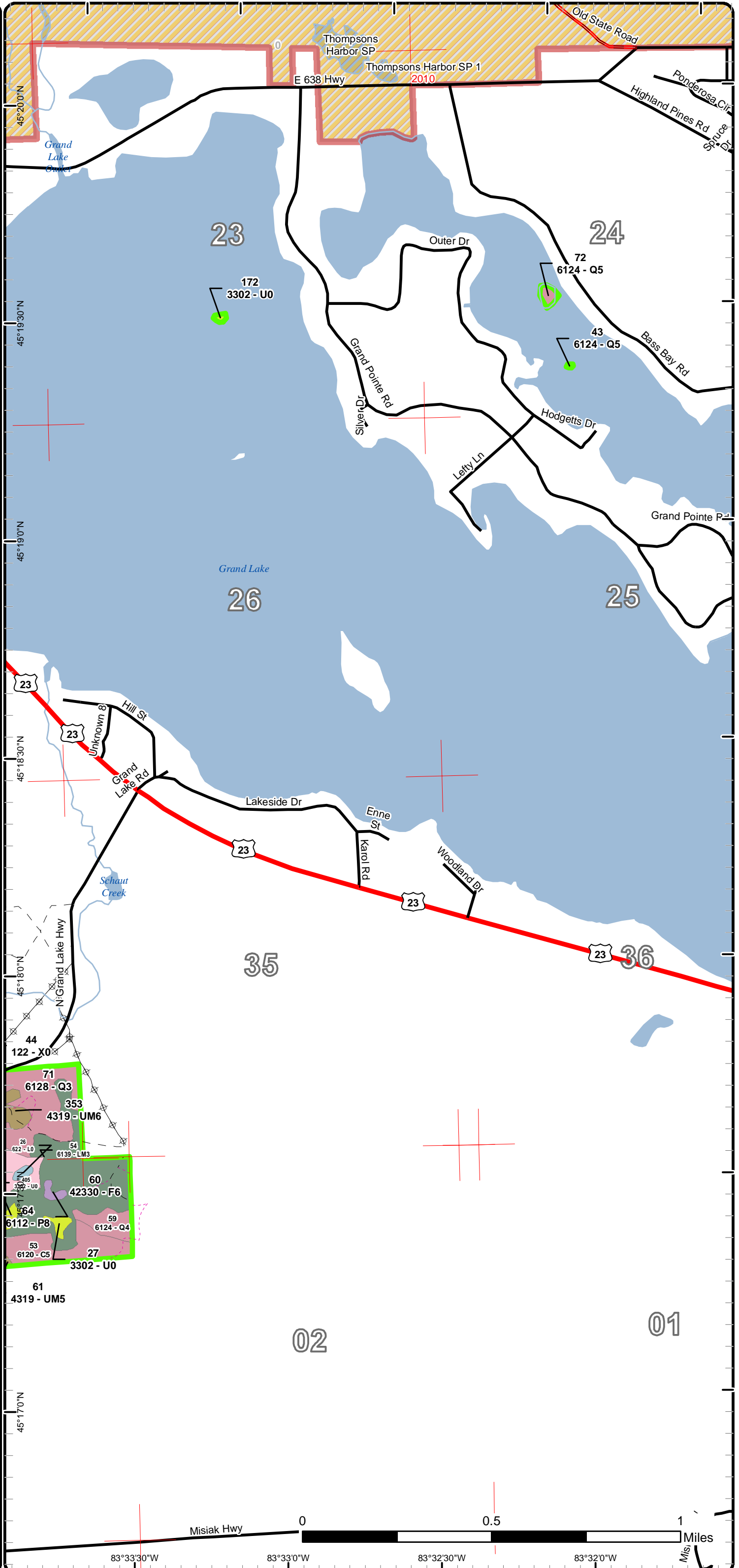
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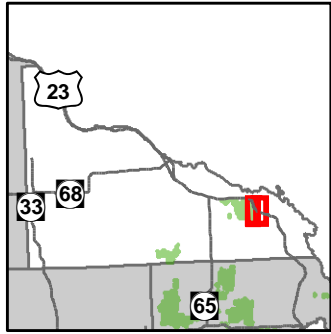


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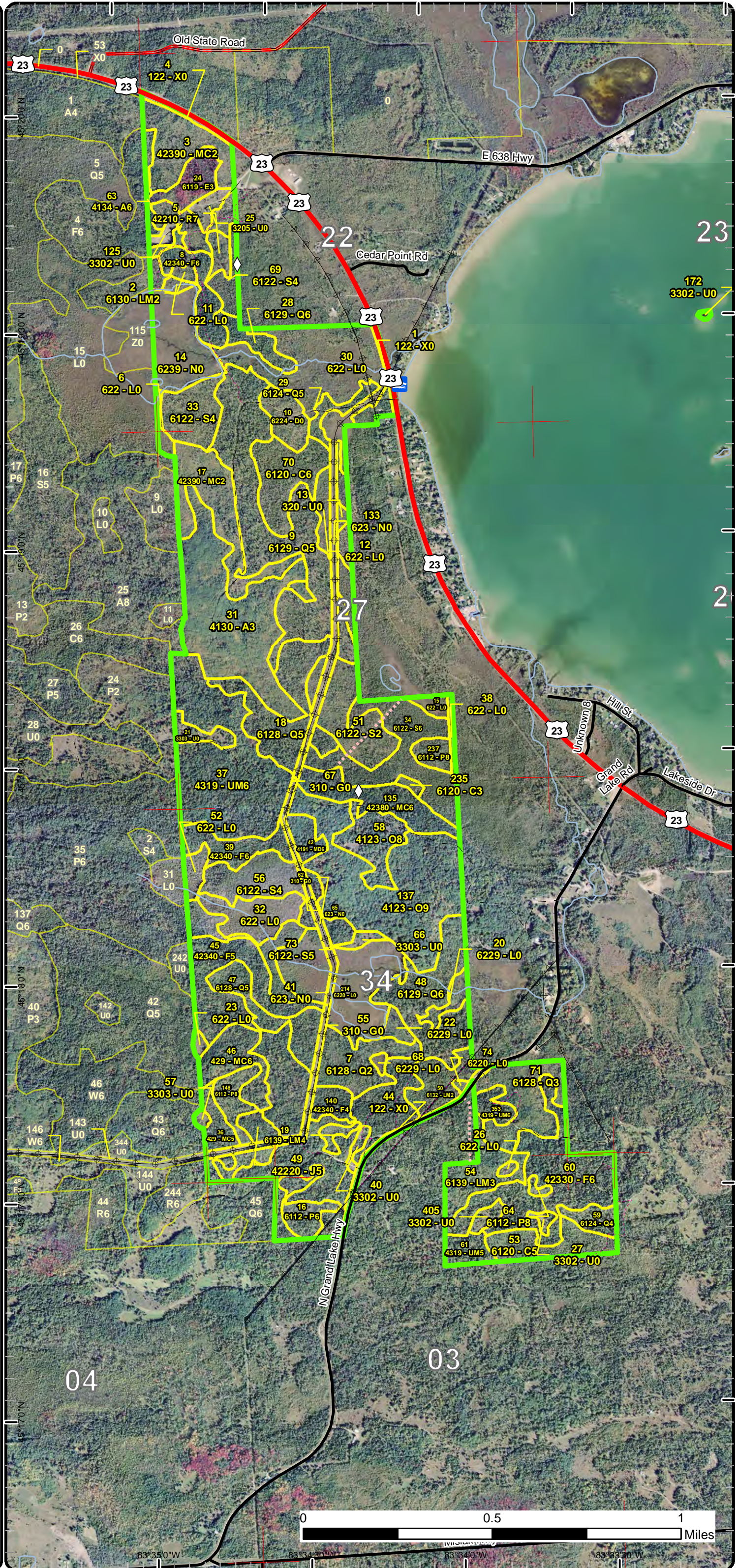


Stand Boundary Map

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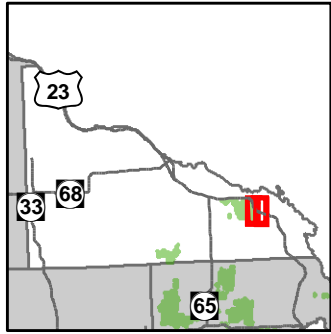


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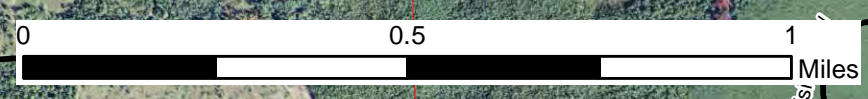
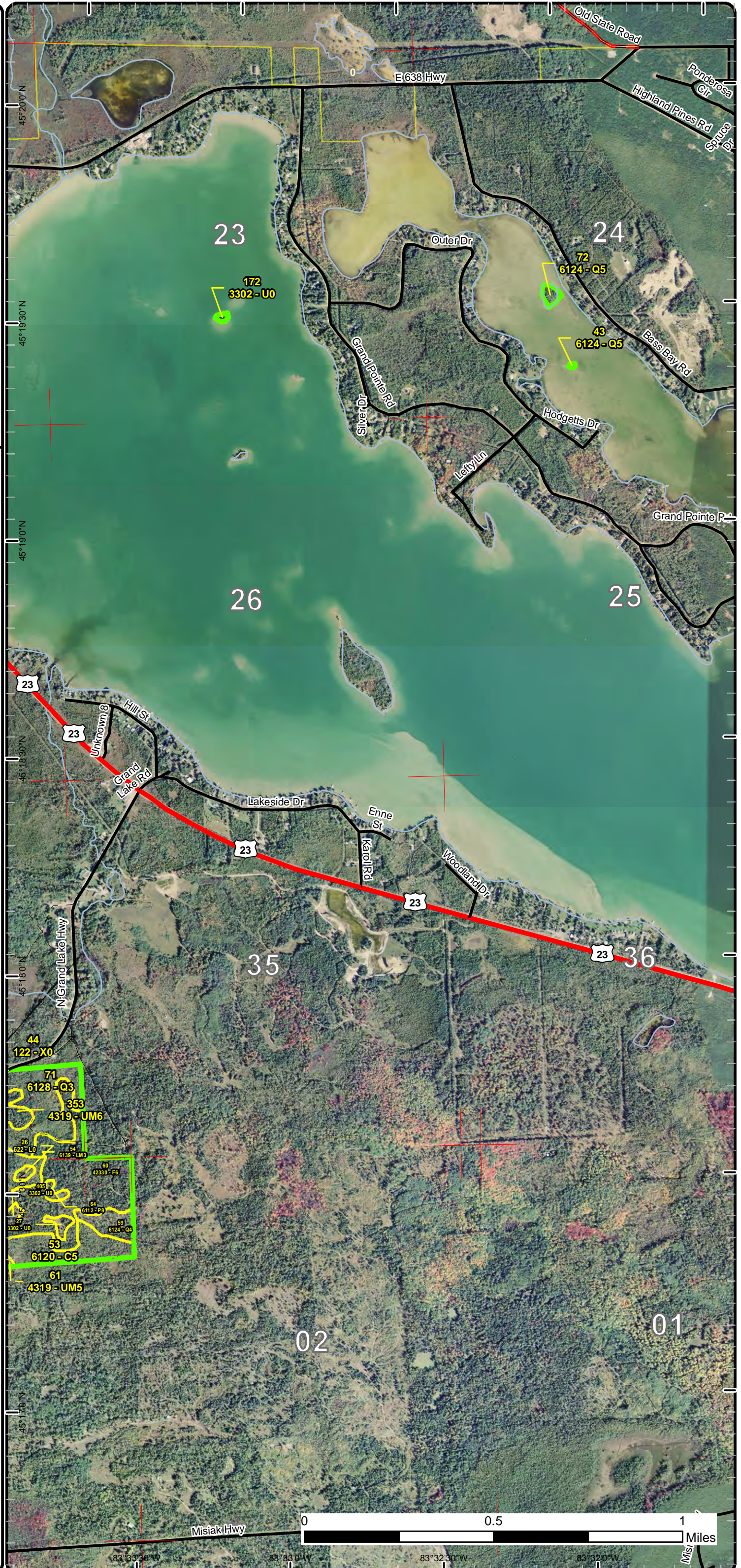


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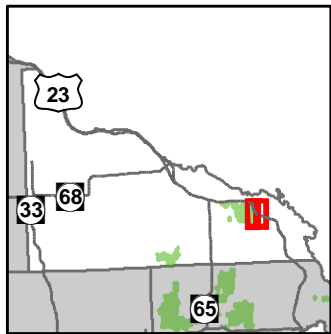
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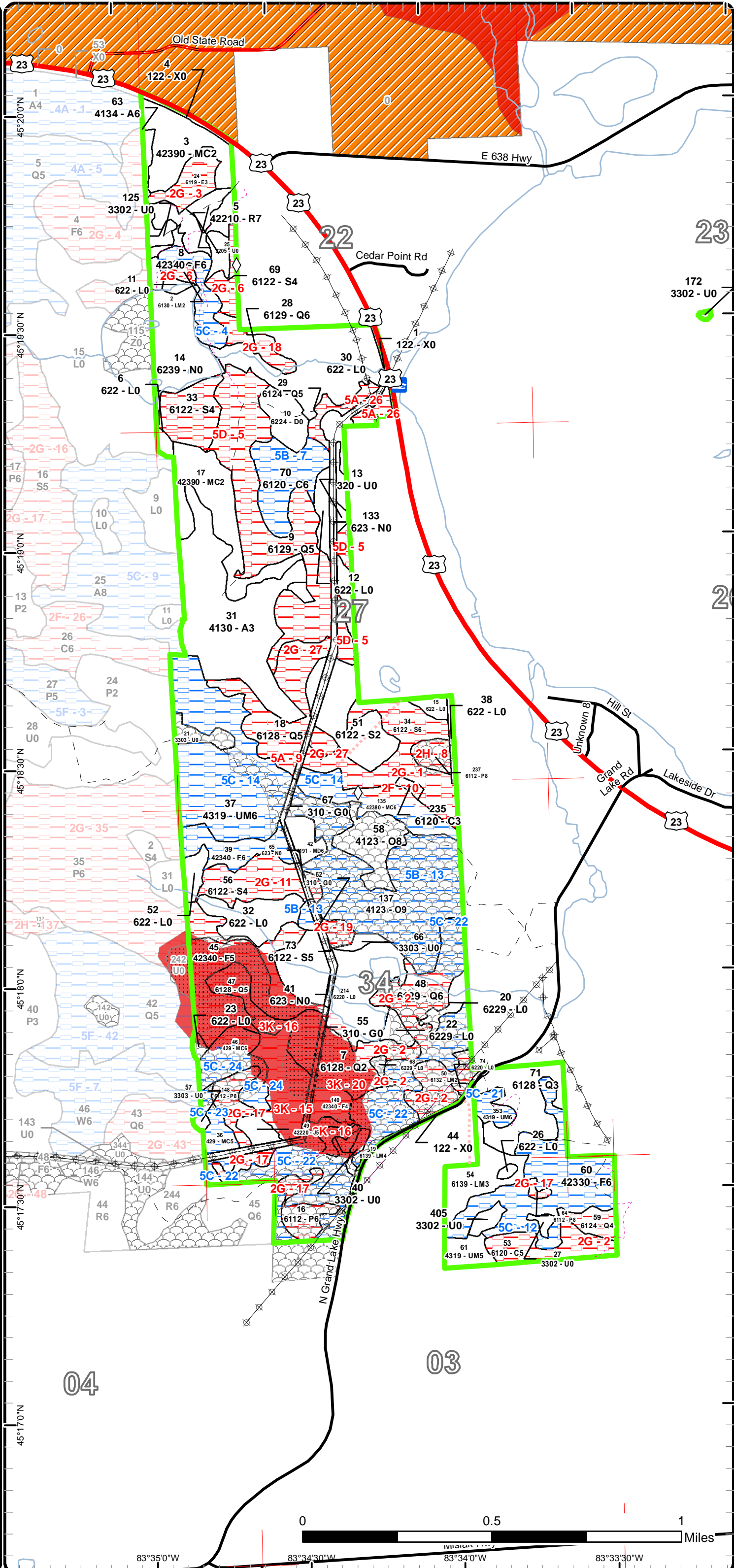
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Special Conservation Areas & Site Conditions Map

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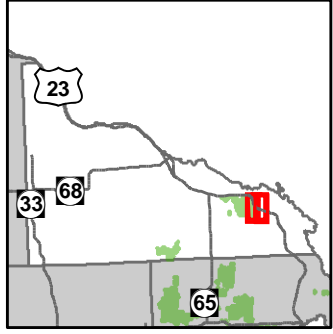


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- ▭ Compartment Boundary
- ▭ Available w/ Constraints
- ▭ Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3K: Rare or unique landforms
- 5A: Not able to obtain desirable regeneration
- 5D: Unproductive Forest Land
- Stand Boundaries
- Ecological Reference Areas
- Eastern Massasauga Managed Land

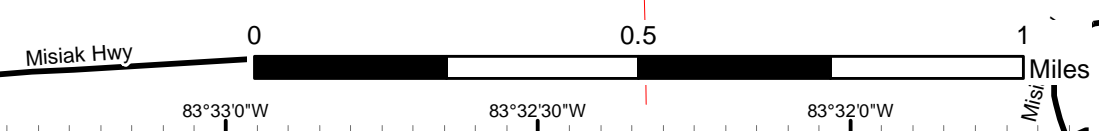
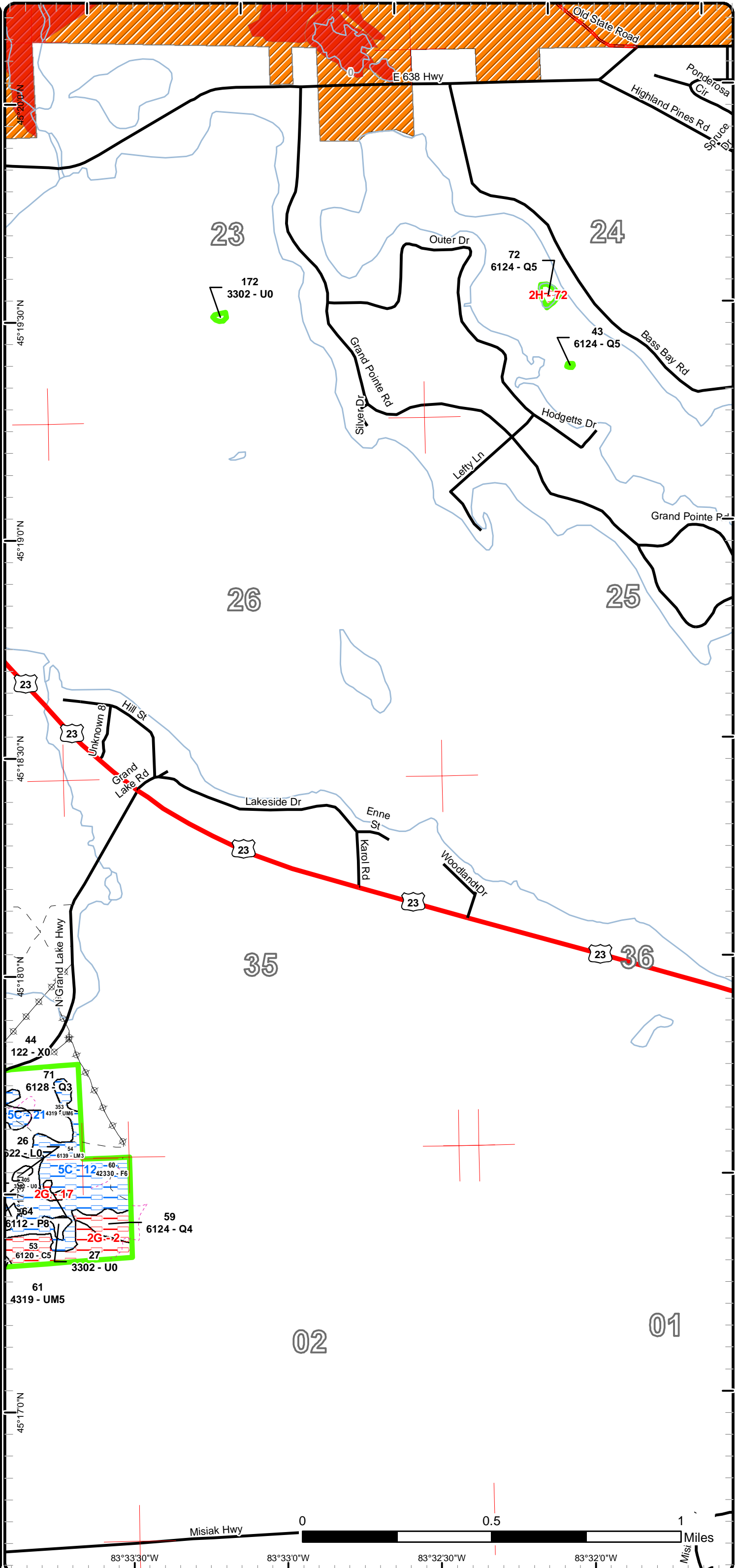


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- Ecological Reference Areas
- Eastern Massasauga Managed Land



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	58	5	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Cedar	0	0	0	1	0	0	0	0	0	0	0	34	0	0	0	0	0	0	35
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Jack Pine	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4
Low-Density Trees	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	12	10	5	0	0	0	0	0	0	0	0	27
Lowland Conifers	0	0	0	0	17	22	16	76	6	28	1	80	0	0	0	0	0	0	245
Lowland Deciduous	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	10
Lowland Mixed Forest	0	0	15	0	2	0	0	3	0	12	0	0	0	0	0	0	0	0	31
Lowland Shrub	124	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	124
Lowland Spruce/Fir	0	0	0	22	0	6	0	0	33	31	15	0	0	0	0	0	0	0	107
Marsh	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Mixed Upland Deciduous	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
Oak	0	0	0	0	0	15	0	0	0	67	0	0	0	0	0	0	0	0	82
Red Pine	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	4
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Conifers	0	0	0	28	0	32	19	21	0	0	0	0	0	0	0	0	0	0	99
Upland Mixed Forest	0	0	0	0	5	59	0	6	0	0	0	0	0	0	0	0	0	0	70
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Upland Spruce/Fir	0	0	0	0	6	44	24	42	0	0	0	0	0	0	0	0	0	0	116
Urban	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	212	0	15	109	28	105	149	139	27	71	130	129	0	0	0	0	0	0	1111



Report 2 – Treatment Summary

Atlanta Mgt. Unit
Year of Entry: 2018

Acres of Harvest

Compartment 140
Total Compartment Acres: 1,105

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



S
t
a
n
d

Treatment
Name

Acres

Stand
CoverType

Size
Density

Stand
Age

BA
Range

Treatment
Type

Treatment
Method

Cover Type
Objective

Age
Structure

Approval
Status

#Type!

Habitat Cut:

Site Condition:

Prescription
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date:

**Total Treatment
Acreage Proposed: 0.0**

Report 4 – Site Conditions

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment: 140
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions												
		With Condition	Not Available		5B	5C	5F	2F	2G	2H	3K	5A	5D			
63	63	0	0	Aspen												
35	0	20	16	Cedar	20				15							0
10	6	0	4	Herbaceous Openland								4				
4	4	0	0	Jack Pine												
16	14	0	2	Low-Density Trees					1			1				
26	0	0	26	Lowland Aspen/Balsam Poplar					22	5						
245	22	54	168	Lowland Conifers	1	53			49	1	35	20	64			
10	0	0	10	Lowland Deciduous					10							
30	15	0	16	Lowland Mixed Forest					13		2					
124	121	0	3	Lowland Shrub			0		1		2					
106	22	0	84	Lowland Spruce/Fir					67		3		15			
41	41	0	0	Marsh							0					
5	5	0	0	Mixed Upland Deciduous												
81	15	67	0	Oak	67											
4	4	0	0	Red Pine												
9	9	0	0	Treed Bog												
98	59	31	8	Upland Conifers		31		4			4					
70	6	64	0	Upland Mixed Forest		64										
5	5	0	0	Upland Shrub												
115	0	66	49	Upland Spruce/Fir		66					49					
7	7	0	0	Urban												
1,105	418	301	386	Total Forested Acres	87	213	0	4	177	6	101	20	79			
	38%	27%	35%	Relative Percent												

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	5A: Not able to obtain desirable regeneration	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments:							
-small poles with thin, weak, and small live crowns							
-shallow organic layer							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment: 140
Year of Entry: 2018

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	52	5A: Not able to obtain desirable regeneration	5D: Unproductive Forest Land	5F: Evaluated for Forest Health Considerations	Unspecified
Comments: -stagnant growth							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: -extremely wet, standing water everywhere							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: -timber DBH, height, and BA is too low to for any harvest operations due to lower site quality on rocky ground -only 1-3 stick timber							
5	Unavailable	5D: Unproductive Forest Land	79	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: -small poles with thin, weak, and small live crowns -shallow organic layer, could have significant alvar presence (too much snow to verify) -cedar and other conifers are coming in well under trees							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment: 140
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7	Available	5B: Maintain for regeneration purposes	21	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: -small poles with thin, weak, and small live crowns -shallow organic layer							
8	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5A: Not able to obtain desirable regeneration	11	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: -mostly cedar for this area							
10	Unavailable	2F: Too steep	4	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	5A: Not able to obtain desirable regeneration	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	42	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: -aspen are falling out of stand due to very old age and poor site quality							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Darrick Coy : Examiner

Compartment: 140
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13	Available	5B: Maintain for regeneration purposes	67	Unspecified	Unspecified	Unspecified	Unspecified
Comments: -organic layer is shallow with rocky ground and oak seedlings/saplings are establishing well in many places under the pockets of aspen							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	86	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3K: Rare or unique landforms	72	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: -Part of Grand Lake Limestone Bedrock Glade (Alvar glade HCVA)							
16	Unavailable	3K: Rare or unique landforms	17	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	5F: Evaluated for Forest Health Considerations	Unspecified
Comments: -Part of the Grand Lake Limestone Bedrock Glade (Alvar glade HCVA)							
17	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	5A: Not able to obtain desirable regeneration	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							

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19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	5A: Not able to obtain desirable regeneration	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments:							
20	Unavailable	3K: Rare or unique landforms	12	2G: Too wet (sensitive soils, does not include access issues)	5A: Not able to obtain desirable regeneration	5F: Evaluated for Forest Health Considerations	Unspecified
Comments: -Part of the Grand Lake Limestone Bedrock Glade (Alvar glade HCVA) -stagnant growth							
21	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	53	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							

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24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5A: Not able to obtain desirable regeneration	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: -small poles with thin, weak, and small live crowns-shallow organic layer							
72	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							



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
Comments	Potential Old Growth		SCA Removal	2
Comments	Potential Old Growth		SCA Removal	5
Comments	Potential Old Growth		SCA Removal	12
Comments	Potential Old Growth		SCA Removal	14
Comments	Potential Old Growth		SCA Removal	91
Comments	Potential Old Growth		SCA Removal	97



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6130 - Fir, Aspen, Maple	Sapling Medium	1.8	40	1-50	-cut sale record 89-72 found in NWSW, cored tree gave similar age to verify card
3	42390 - Mixed Non-Pine Upland Conifers	Sapling Medium	31.5	41	1-50	-poor soils, mixed conifers, aged two trees -older pole conifer sized trees to NW that was possibly not cut through, decided to merge -appears to have been cut with some scattered conifer poles left that were not quite merchantable during harvest -cut sale record 89-72 found in NWSW, multiple trees were cored giving this similar age to verify card
5	42210 - Natural Red Pine	Sawtimber Poor	3.7	94	1-50	
7	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	17.3	33	1-50	-assume most ash is dead, most showing holes, poor quality, stagnant growth -east half has some larger timber, mostly aspen, very old, not enough to make it 2 aged
8	42340 - Upland Spruce/Fir	Poletimber Well	11.3	54	51-80	-RP logs in NW and N Central portions of stand -many of spruce fir are still non-merchantable, 1-2 stick
9	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	64.6	103	1-50	-small poles with thin, weak, and small live crowns -1-3 stick trees -30-50 BA -poor stocking -cover type is perpetuating itself with fairly established regeneration throughout stand -assume cause is mostly due to poor soil, doesn't seem excessively wet
16	6112 - Lowland Aspen	Poletimber Well	9.0	88	51-80	-too wet for harvest operations, standing water throughout
17	42390 - Mixed Non-Pine Upland Conifers	Sapling Medium	27.5	24	1-50	-semi-open -not as fully stocked but has a good conifer deciduous mix with varied canopy closure -great shrub presence and development
18	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	28.1	87	51-80	-vein of log cedar in middle going E-W-pocket of aspen to west central portion of stand
19	6139 - Mixed Lowland Forest	Poletimber Poor	2.5	70	1-50	-too wet to harvest, poor quality timber, fairly open stand
24	6119 - Mixed Lowland Deciduous Forest	Sapling Well	9.6	94	1-50	-too wet to harvest and non-merchantable products -more saplings to sw and ne, assuming most of ash is dead beyond 2" dbh due to ash borer -standing water across most of stand 6-12" deep
28	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	6.8	54	81-110	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	6124 - Lowland Spruce- Fir	Poletimber Medium	8.5	57	1-50	-camper possibly on State land -located wood stake putting camper on PVT but no registered corner located
31	4130 - Aspen	Sapling Well	57.7	24	1-50	
33	6122 - Black Spruce	Poletimber Poor	14.7	103	1-50	-small poles with weak and small live crowns -1-2 stick trees -20-40 BA -poor stocking -fairly pure stand of spruce -cover type is perpetuating itself with fairly established regeneration throughout stand -assume cause is mostly due to poor soil, doesn't seem excessively wet
34	6122 - Black Spruce	Poletimber Well	31.4	95	81-110	-dense spruce stand with small diameters for age -standing water, hummocks, too wet for operations -would covert to non-forest if cutting was attempted -weak and narrow live crowns
36	429 - Mixed Upland Conifers	Poletimber Medium	6.1	62	51-80	-less pole jack pine to north, mostly saplings in this area, was merged with south half due to minor size class change
37	4319 - Mixed Upland Forest	Poletimber Well	58.9	56	51-80	-older overstory of aspen and oak that is filling in with fir/spruce -too many non-merchantable fir -most oak are mast -NW portion has lower BA, high amount of non-merchantable fir, large areas of blow down in middle, terrain is variable and would create logging operation issues
39	42340 - Upland Spruce/Fir	Poletimber Well	12.2	52	1-50	
42	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.5	55	51-80	
43	6124 - Lowland Spruce- Fir	Poletimber Medium	0.1	89	51-80	
45	42340 - Upland Spruce/Fir	Poletimber Medium	44.0	40	1-50	-area may have been logged but cannot verify due to deep snow -almost two-aged with overstory oak, aspen, and basswood -this stand likely has a significant alvar presence due to openness and is already part of the bedrock glade HCVA ERA
46	429 - Mixed Upland Conifers	Poletimber Well	14.7	61	81-110	-older aspen with spruce fir coming into the canopy
47	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	14.9	101	51-80	-rocky and extremely wet -standing water -broken up canopy, not well defined -more lowland spruce and jp to west, aspen in middle, cedar in east



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	76.0	60	81-110	-NE has larger cedar and older (93) and is slightly more open with some fallen timber -the bulk of this stand to the SW is younger (60) and has smaller cedar mostly small poles -no significant difference between cover type composition for NE and SW portions which were merged
49	42220 - Natural Jack Pine	Poletimber Medium	4.0	57	51-80	
50	6132 - Mixed Lowland Forest with Cedar	Sapling Medium	11.5	91	51-80	-too wet, non-merchantable timber, standing water in most of stand, stagnant
51	6122 - Black Spruce	Sapling Medium	21.8	28	1-50	
53	6120 - Lowland Cedar	Poletimber Medium	14.2	104	51-80	-too wet, stagnant growth, low vigor in trees
54	6139 - Mixed Lowland Forest	Sapling Well	14.6	12	1-50	-stand difficult to code and walk through due to thick balsam fir in many areas of stand
56	6122 - Black Spruce	Poletimber Poor	28.1	86	51-80	-crown cover and density of live stems diminishes heading N-S -extremely wet, standing water common throughout -weak small crowns
58	4123 - Red Oak	Sawtimber Medium	14.7	54	1-50	-appears to be younger from core sample for this area -this area could have significant alvar presence with it being semi- open and upland -poor quality timber due to large open areas -many mast oak -most oak is of poor quality and relatively short for age (30-40ft), excessively branching (mast), and only 2-4 sticks in volume- likely due to rocky limestone soil -significant advanced oak saplings coming in under scattered aspens that is dying -best access to stand is through private or through state to west along two-track -snowmobile will likely get stuck using power line to south, best walk on foot using snowshoes from edge of tag alder
59	6124 - Lowland Spruce- Fir	Poletimber Poor	5.5	77	1-50	-too wet, main canopy losing its integrity due to age and level of wetness -aspens and other deciduous are giving way to conifer, lowland shrub and black ash -north half is very wet, standing water -many small pockets of non-forest lowland shrub openings throughout stand
60	42330 - Upland Fir	Poletimber Well	42.4	64	51-80	-60-80% of stand volume lies within 1-2 stick fir trees -may have been more overstory aspens, not enough to make it two- aged with fir in canopy now
61	4319 - Mixed Upland Forest	Poletimber Medium	6.0	78	51-80	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4134 - Aspen, Spruce/Fir	Poletimber Well	4.8	39	51-80	-south half of stand primarily aspen, more mixed to north half -cut sale record 89-72 found in NWSW, similar in age with stand to NE and was likely cut at the same time, core sample verified similar age
64	6112 - Lowland Aspen	Sawtimber Medium	1.2	85	51-80	-significantly wet -aspen growing in marsh conditions, grass and water below
69	6122 - Black Spruce	Poletimber Poor	5.8	52	1-50	
70	6120 - Lowland Cedar	Poletimber Well	19.8	101	81-110	-small poles with weak and small live crowns -1-3 stick trees -80+ BA -cover type is perpetuating itself with fairly established regeneration throughout stand -assume cause is mostly due to poor soil, doesn't seem excessively wet
71	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	21.6	46	1-50	-pockets of older conifers to the NW and NE, were merged into stand due to changes not being significant in cover type or size class
72	6124 - Lowland Spruce- Fir	Poletimber Medium	1.3	91	51-80	OPIC - FMD: ISLAND IN GRAND LAKE
73	6122 - Black Spruce	Poletimber Medium	4.6	87	1-50	-canopy not very defined, could be uneven aged
135	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	18.5	55	51-80	-N 1/2 of stand has terrain issues (steep ridge running E-W)- may have contained more aspen but it is significantly aged and converting to fir poles
137	4123 - Red Oak	Sawtimber Well	66.7	94	81-110	-previously coded as non-forest, low density trees..... -rocky ground with more mixed ages and sizes in north half -organic layer is shallow with rocky ground and oak seedlings/saplings are establishing well in many places under the pockets of dying aspen -poor quality timber in north portions due to large open areas -many mast oak in north half and small pole oak throughout the stand -1/2 or more of oak cover is 6-8" dbh -most oak is of poor quality and relatively short for age (30-40ft), excessively branching (mast), and only 2-4 sticks in volume- likely due to rocky limestone soil -best access to stand is through private or through state to west along two-track -snowmobile will likely get stuck using power line to south, best walk on foot using snowshoes from edge of tag alder
140	42340 - Upland Spruce/Fir	Poletimber Poor	5.5	36	1-50	-low-mod stocked spruce/fir stand with scattered deciduous
148	6112 - Lowland Aspen	Sawtimber Medium	11.6	78	51-80	-standing water throughout -obtained age in south half of stand -large rather open shrub areas within north half with scattered aspen -south half has better stocking, mostly large poles

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Report 7 – Forested Stands

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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
235	6120 - Lowland Cedar	Sapling Well	1.3	28	1-50	-odd small stand of primarily cedar and other conifer, not sure how it was cleared -old habitat cut?
237	6112 - Lowland Aspen	Sawtimber Medium	4.7	92	81-110	-aspen significantly rotten > 30+% -isolated stand
353	4319 - Mixed Upland Forest	Poletimber Well	4.7	47	51-80	-a lot of non merchantable fir, most canopy fir is 1-2 sticks -aspen is 3-4 sticks



Stand	Cover Type	Acres	Managed Site	General Comments:
1	122 - Road/Parking Lot	1.5	No	
4	122 - Road/Parking Lot	2.0	No	
6	622 - Lowland Shrub	2.3	No	OPIC - FMD: HOLD INDEF. Very unthrifty in north end, may have been flooded.
10	6224 - Treed Bog	9.3	No	-standing dead trees, not much going on in subcanopy, little regeneration
11	622 - Lowland Shrub	1.5	No	
12	622 - Lowland Shrub	10.8	No	OPIC - FMD: HOLD INDEF. Very unthrifty in north end, may have been flooded.
13	320 - Upland Shrub	1.1	No	OPIC - FMD: very wet and marshy in places.
14	6239 - Mixed Emergent Wetland	22.9	No	-SCA DUE TO Grand Lake Pike Spawning Marsh, maintained by Fisheries Division -mixed between lowland shrub around edges with more marsh conditions in interior -concrete dam to SE, only a narrow walking bridge allowing access to N and S
15	622 - Lowland Shrub	2.6	No	
20	6229 - Mixed lowland shrub	4.3	No	OPIC - FMD: Wet marshy area....Mostly "L".
21	3303 - Mixed Low Density Trees	4.6	No	OPIC - FMD: Alvar? Mostly U with scattered R.oak, w. ash, h. maple, r. elm, basswood, w. pine, balsam, w. birch, & aspen. Rocky
22	6229 - Mixed lowland shrub	3.1	No	OPIC - FMD: Low marshy area between two limestone ridges.
23	622 - Lowland Shrub	1.3	No	OPIC - FMD: Alvar? Unusual stand- very poor quality-timber is short & unthrifty. Rocky surface w/ some wet areas. White pine seems to be doing the best.
25	3205 - Mixed Upland Shrub	3.7	No	-transfer station to west with gate restricting access to east adjacent to HWY 23- could have went with low density trees, decided on upland shrub instead, will likely be low density trees or forested stand over time, seems to be filling in slowly with conifer trees
26	622 - Lowland Shrub	0.9	No	
27	3302 - Low Density Conifer Trees	1.5	No	
30	622 - Lowland Shrub	38.2	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
32	622 - Lowland Shrub	14.4	No	OPIC - FMD: POOR ACCESS-HOLD INDEF. Small intermittent stream flows through stand.
38	622 - Lowland Shrub	1.8	No	
40	3302 - Low Density Conifer Trees	1.8	No	OPIC - FMD: SPRUCE CREEPING IN. (U,C1,S1,F1) Very rocky soil. Some aspen encroaching. Alvar?
41	623 - Emergent Wetland	1.7	No	-power line- no alder, more of a marsh
44	122 - Road/Parking Lot	3.8	No	OPIC - FMD: SPRUCE CREEPING IN. (U,C1,S1,F1) Very rocky soil. Some aspen encroaching. Alvar?
52	622 - Lowland Shrub	4.1	No	OPIC - FMD: POOR ACCESS-HOLD INDEF. Small intermittent stream flows through stand.
55	310 - Herbaceous Openland	6.3	No	OPIC - FMD: ELECTRIC TRANSMISSION LINE, WET IN PLACES.
57	3303 - Mixed Low Density Trees	1.0	No	
62	310 - Herbaceous Openland	1.7	No	OPIC - FMD: ELECTRIC TRANSMISSION LINE, WET IN PLACES.
65	623 - Emergent Wetland	1.0	No	OPIC - FMD: ELECTRIC TRANSMISSION LINE, WET IN PLACES.
66	3303 - Mixed Low Density Trees	1.9	No	
67	310 - Herbaceous Openland	2.0	No	OPIC - FMD: ELECTRIC TRANSMISSION LINE, WET IN PLACES.
68	6229 - Mixed lowland shrub	1.0	No	OPIC - FMD: Alvar? Unusual stand- very poor quality-timber is short& unthrifty. Rocky surface w/ some wet areas.White pine seems to be doing the best.
74	6220 - Alder/willow	0.6	No	
125	3302 - Low Density Conifer Trees	1.9	No	-old gravel pit to west -seems to be filling in slowly with conifer trees that are stressed due to no real organic layer and poor soil (mostly rock)
133	623 - Emergent Wetland	15.8	No	OPIC - FMD: ELECTRIC TRANSMISSION LINE, WET IN PLACES.
172	3302 - Low Density Conifer Trees	0.4	No	OPIC - FMD: ISLAND IN GRAND LAKE



Stand	Cover Type	Acres	Managed Site	General Comments:
214	6220 - Alder/willow	36.8	No	-primarily tag alder that is only 1-3 ft in height
405	3302 - Low Density Conifer Trees	2.8	No	