



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71007

Entry Year 2024

Acreage: 3,300

County Roscommon

Management Area: Houghton Lake Wetlands

Stand Examiner: Brian Martell

Legal Description:

T23N R03W Sections 6, 7, 8, 18

T23N R04W Sections 1, 2, 3, 10, 11, 12, 13, 23, 24

Identified Planning Goals:

Allow age and species diversification in a range of early and late successional ecosystems.

Soil and topography:

Topography is level to slightly rolling with very poor to moderately poor drainage within the compartment. Lowlands are mostly Tawas-Lupton mucks and uplands are mostly Graycalm-Klacking sands and Grayling sands.

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

Most of the compartment is a large continuous block of state land. There are some small broken up parcels with limited access around the north shore of Houghton Lake.

Unique Natural Features:

This compartment contains large continuous lowland swamps. Multiple Bald Eagle nesting sites are scattered across the west side of the compartment.

Archeological, Historical, and Cultural Features:

None known or detected during fieldwork.

Special Management Designations or Considerations:

There are two reviewable SCA's within the compartment. Stand 162 is possible type 1 or 2 old growth and stand 152 is a visual management area.

Watershed and Fisheries Considerations:

This compartment borders Houghton Lake and contains a piece of the Muskegon River. There are also drainages that flow into both.

Wildlife Habitat Considerations:

The compartment is just north of Houghton Lake and consists predominately of lowland conifer stands as it is an eastern extension of the Dead Stream Swamp. The eastern side of the compartment does contain some aspen stands near the sewage treatment ponds on School Road. The compartment is important to deer, grouse, woodcock, black bear and snowshoe hare. This compartment sees heavy pressure for hunting. Management considerations include treatments that will promote providing wildlife cover and winter deer habitat. To promote snowshoe hare and other small mammals, brush piles will be constructed in association with timber harvests along and within the lowlands whenever possible. Aspen stands will be managed to promote young forests for early successional wildlife species. Whenever possible, aspen harvests will include drumming logs to enhance breeding habitat for ruffed grouse. Currently there are three managed wildlife openings within the compartment.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for metallic minerals in this part of the state. The nearest active sand/gravel pit is two miles to the northeast. Many active pits occur in this region, and there is generally good potential within the outwash and ice-contact glacial deposits of the area. However, much of the compartment appears to be covered by wetlands, which could inhibit surface mining activities. The nearest hydrocarbon production, past or present, is three miles to the west. There has been very limited well permitting history in and around the compartment. While there has been some recent history of leasing of State-owned oil & gas rights within the compartment, oil & gas potential is considered low at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

The upland areas have decent vehicle access with county roads and state two-tracks. The large lowland expanses mostly only have road access around the edges.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The Houghton Lake State Forest Campground occurs in stand 150. Due to the proximity to private land the compartment receives pressure for hunting, dispersed recreational use of walking, and some possible trapping.

Fire Protection:

Low occurrence of fire history in this compartment. A good portion of this compartment is lowland and the high ground is mostly low hazard fuels. The wildland-urban interface with numerous residences may increase fire starts from human actions.

Additional Compartment Information:

None

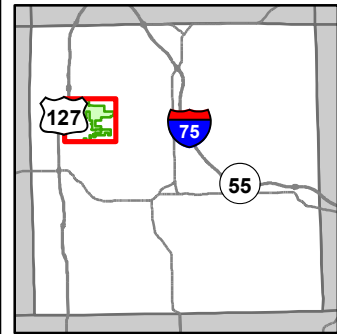
The following reports from the Inventory are attached:

- 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:

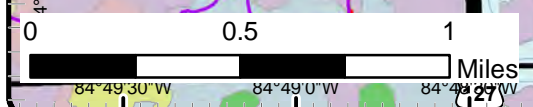
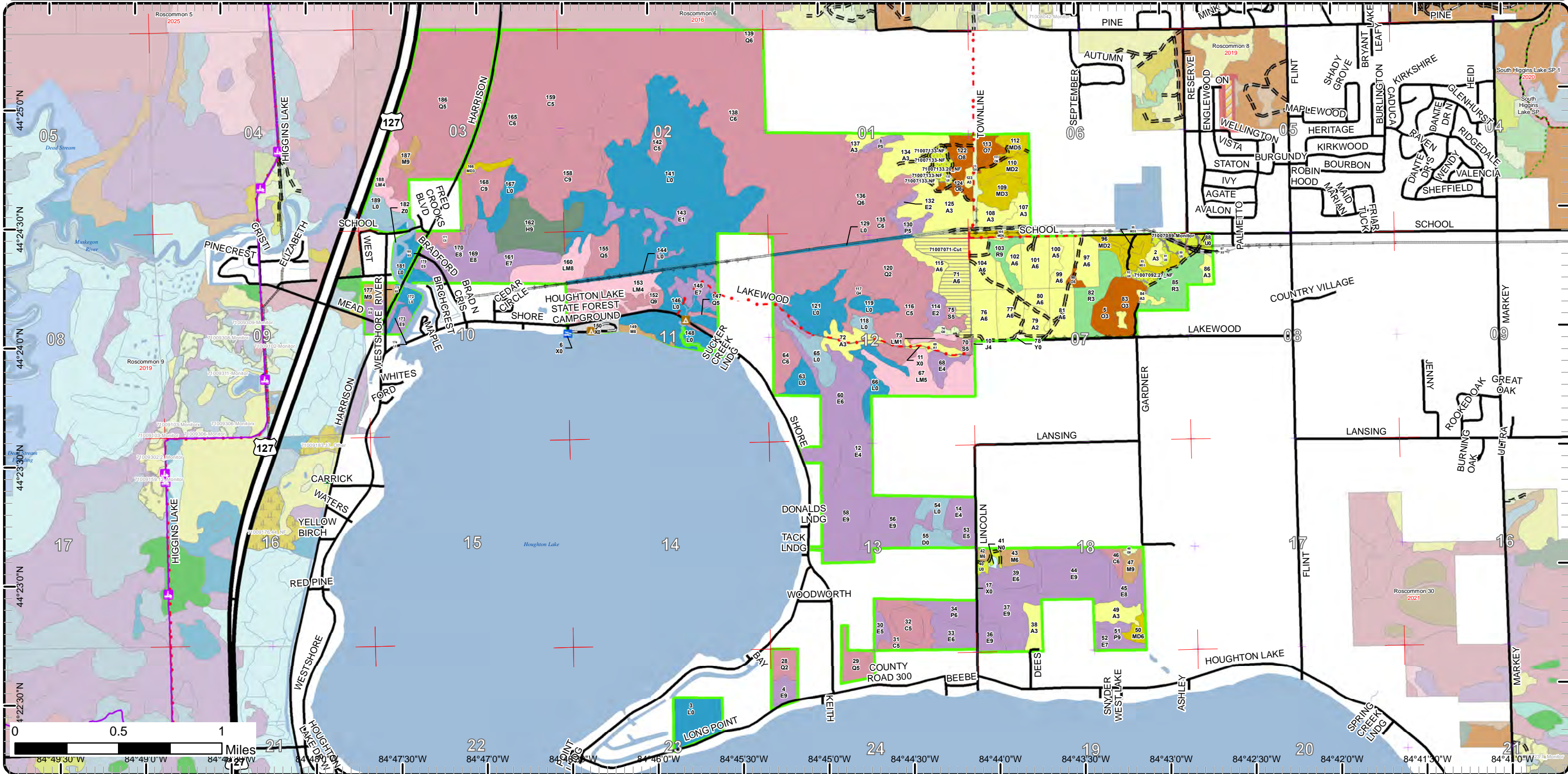
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



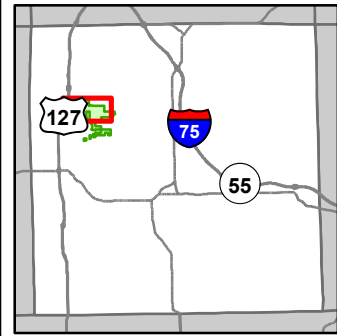
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 Mgmt Area: Houghton Lake
 Wetlands
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 Acres: 3300.1 GIS Calculated
 Examiner: Brian Martell
 Map Revised: 12/27/2022
 Map Phase: Post-Review

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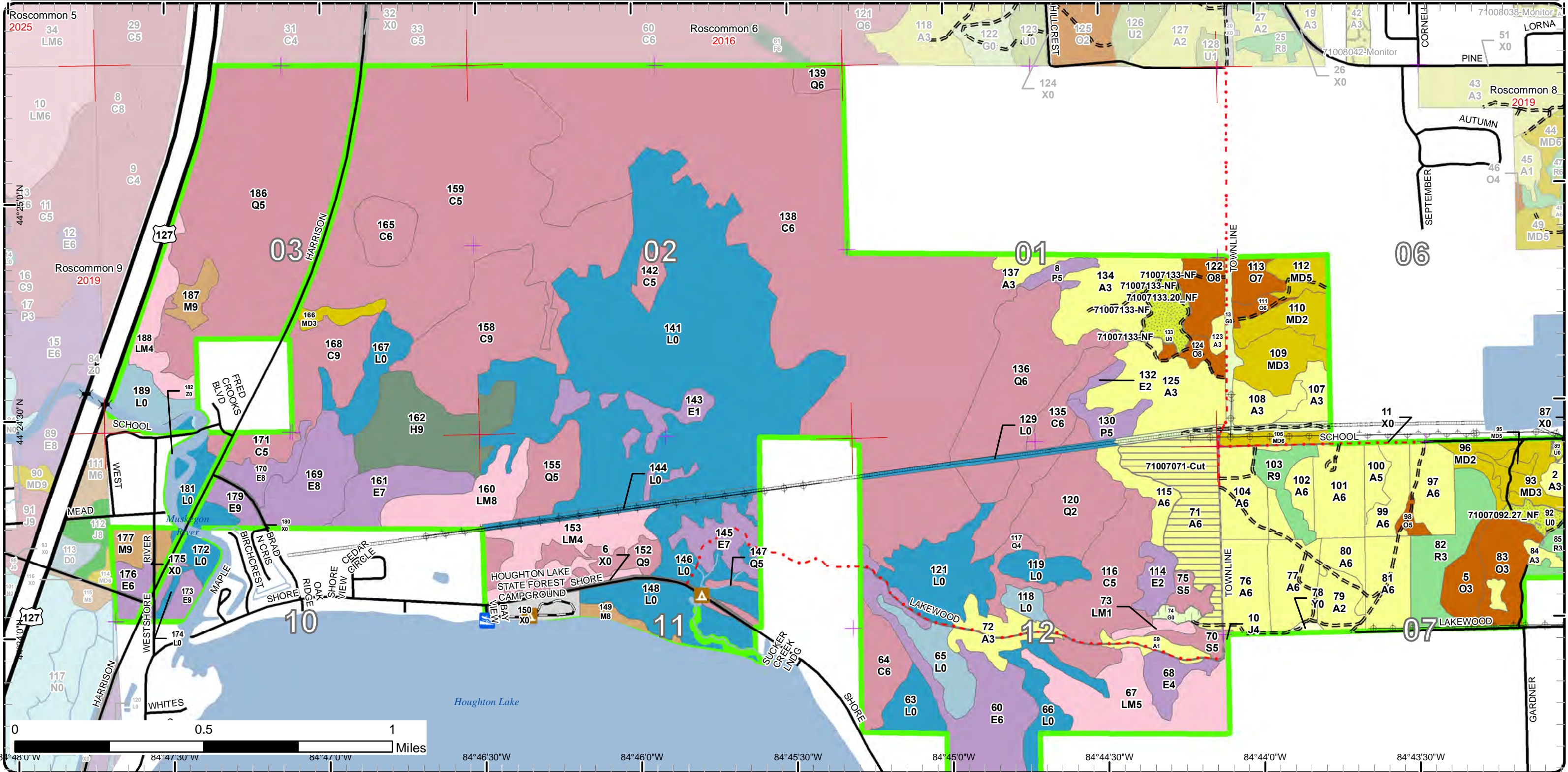
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Cover Type & Treatments Map

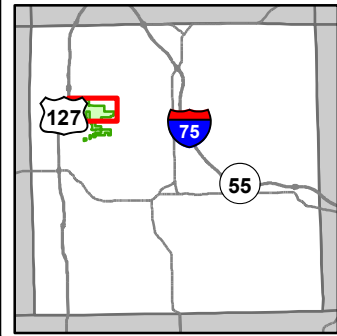


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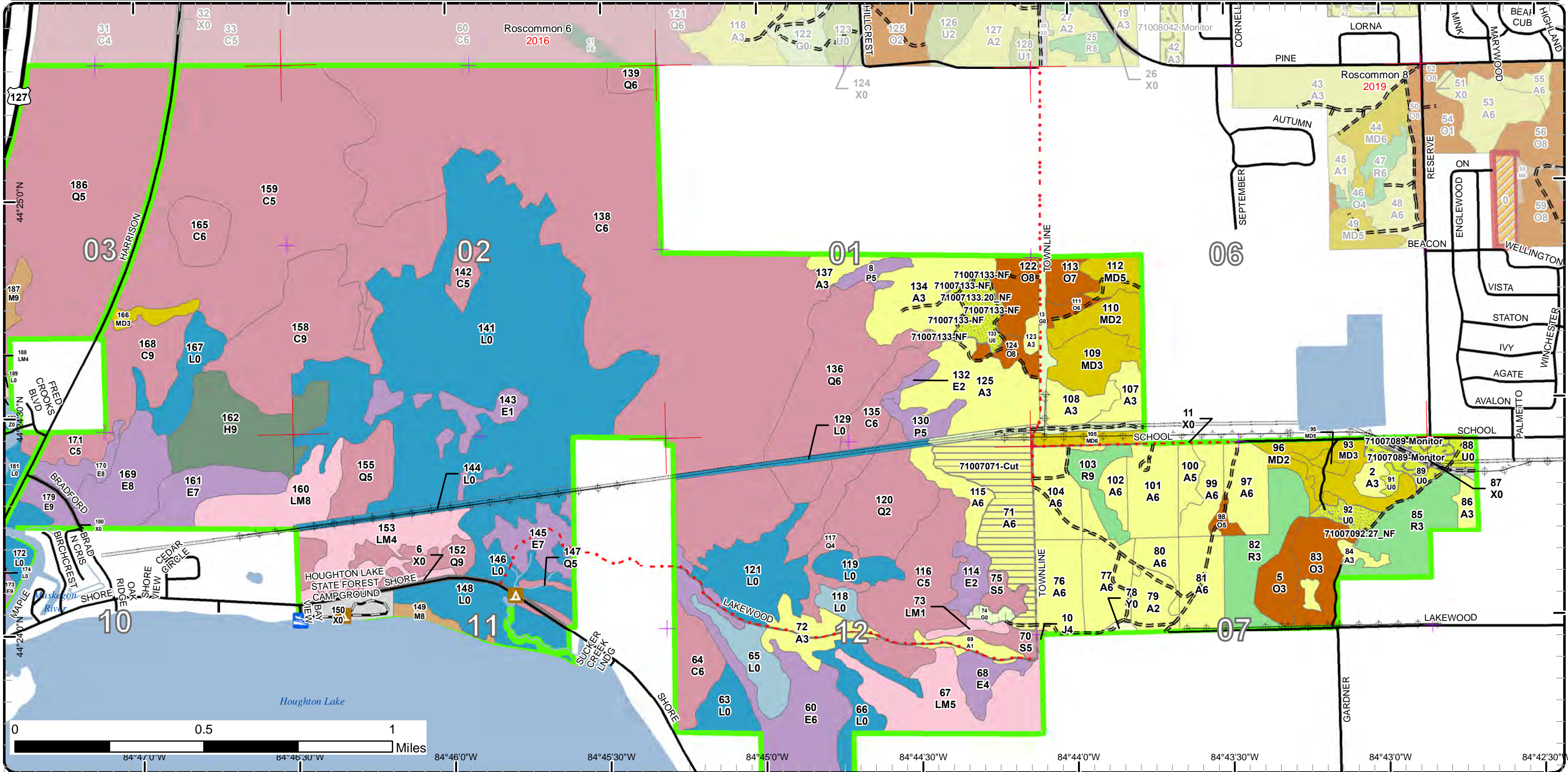


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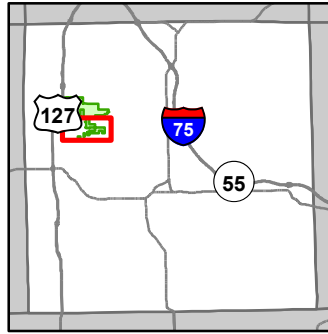
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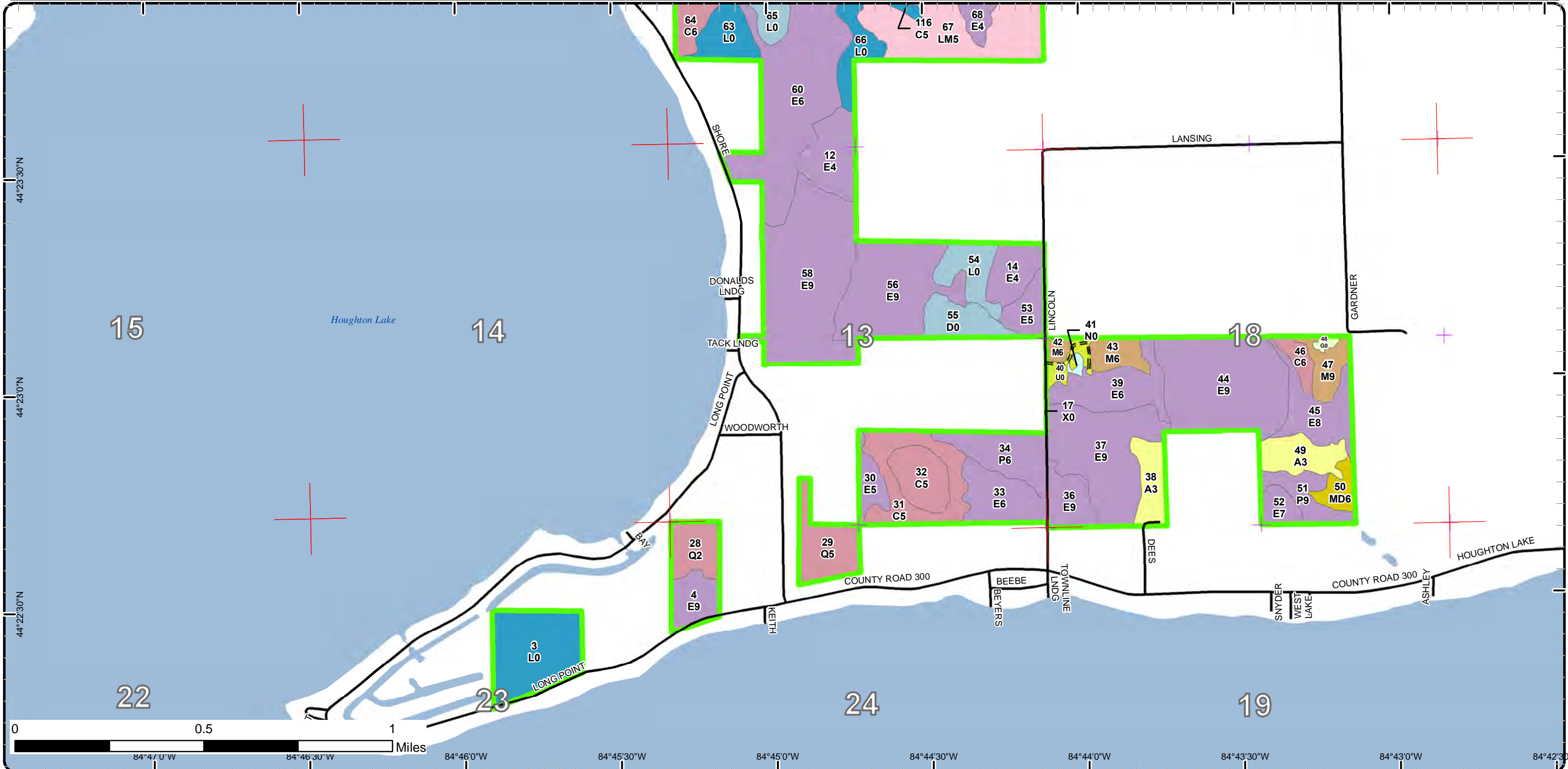


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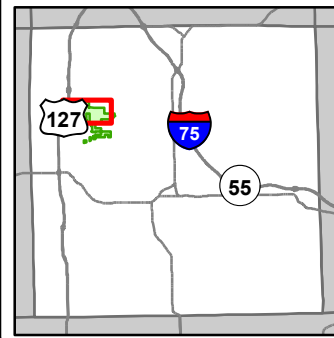
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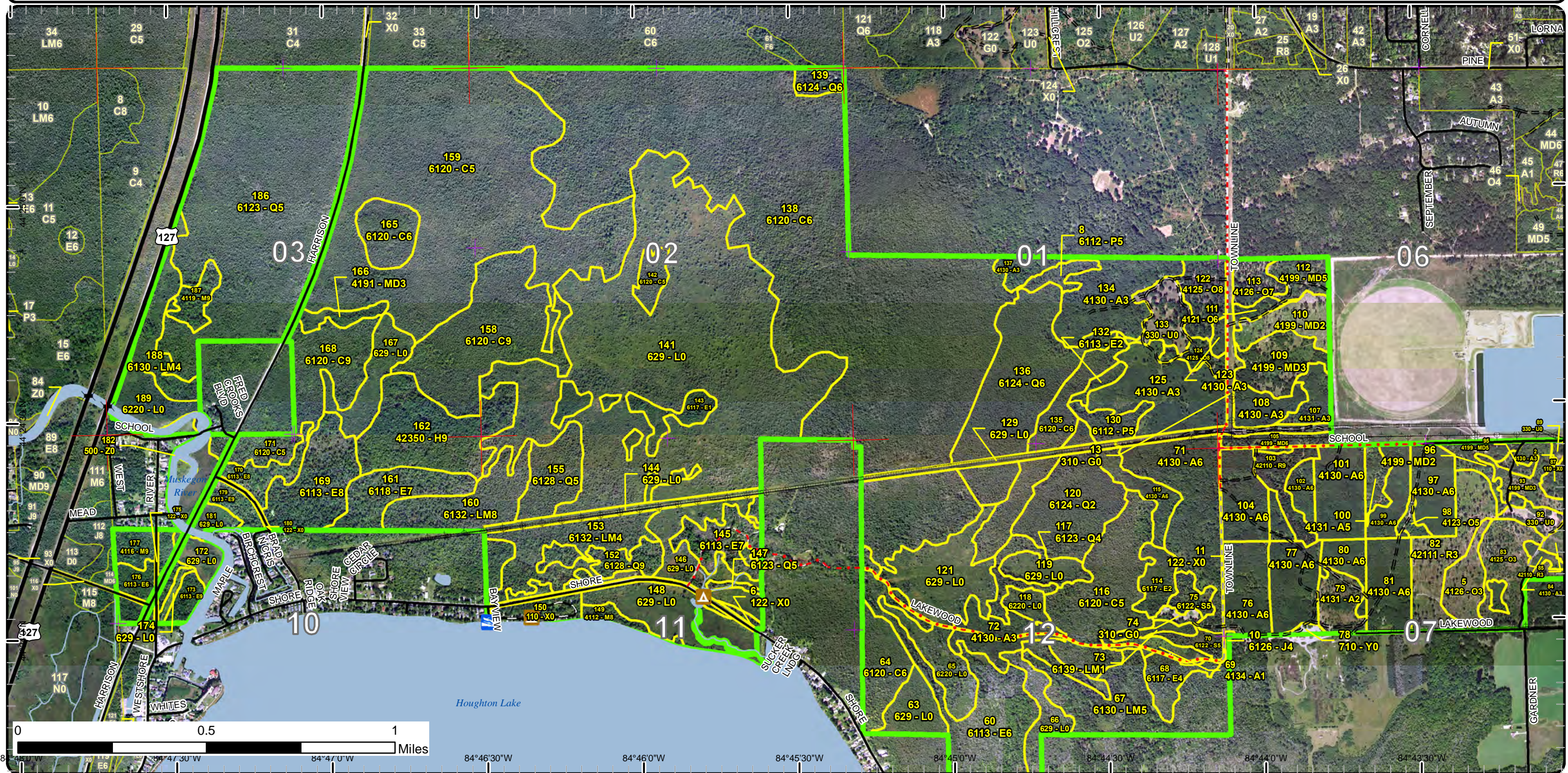


Stand Boundary Map

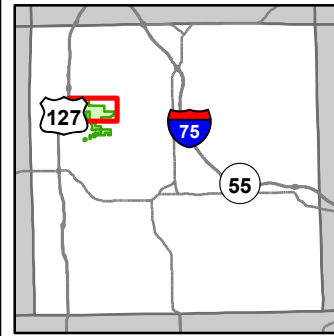


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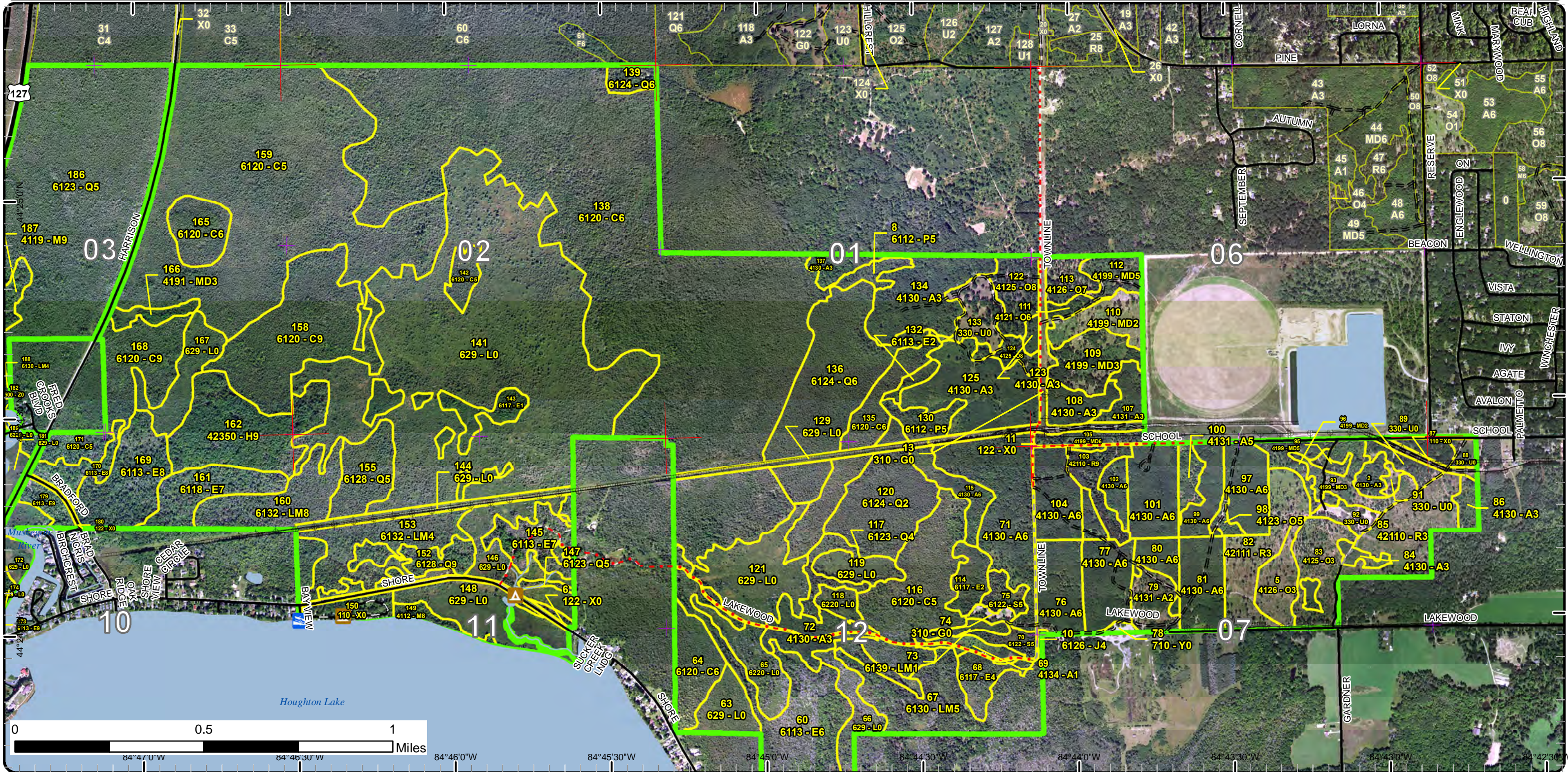


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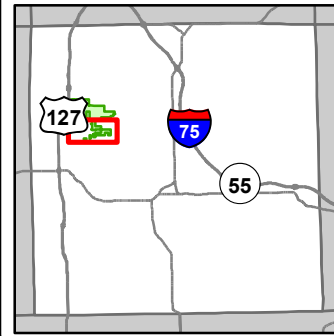


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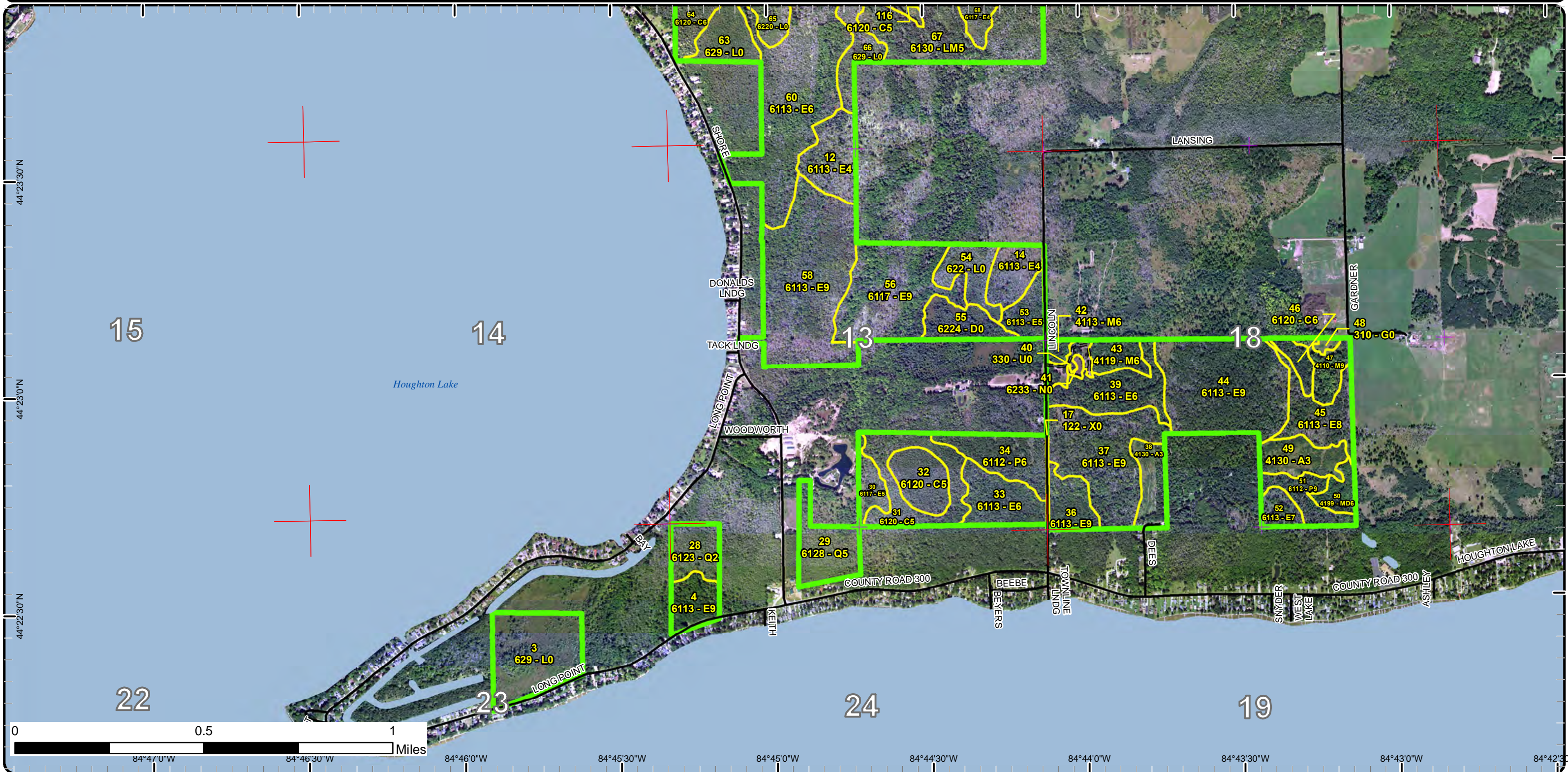


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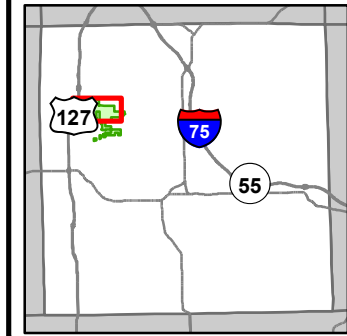
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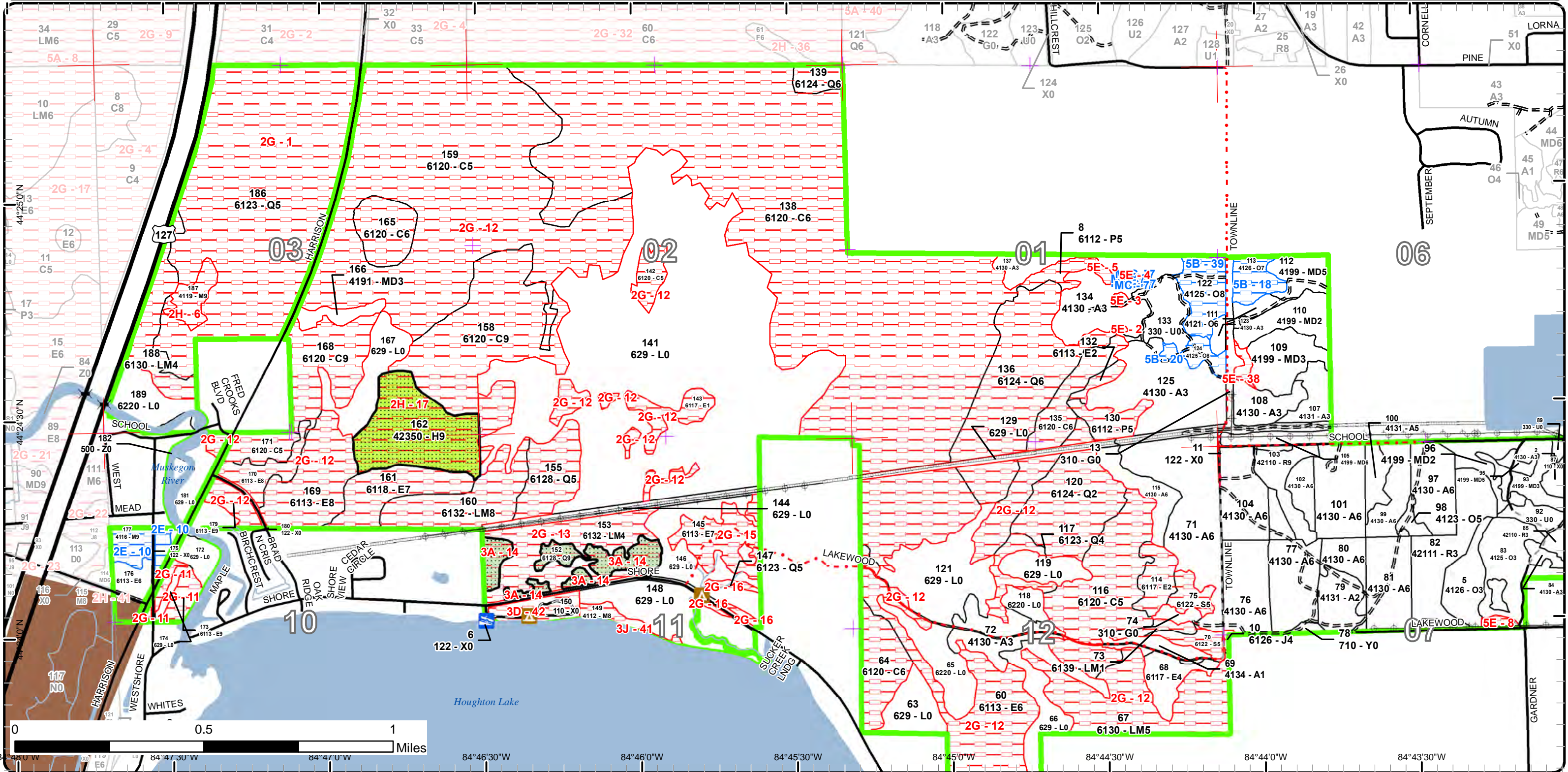


Special Conservation Areas

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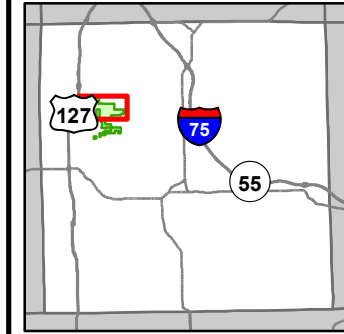


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- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- 2E: Road needed
- 5B: Maintain for regeneration purposes
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Wildlife Management Areas
- Recreational/Scenic Value Area
- Possible Type 2 Old Growth

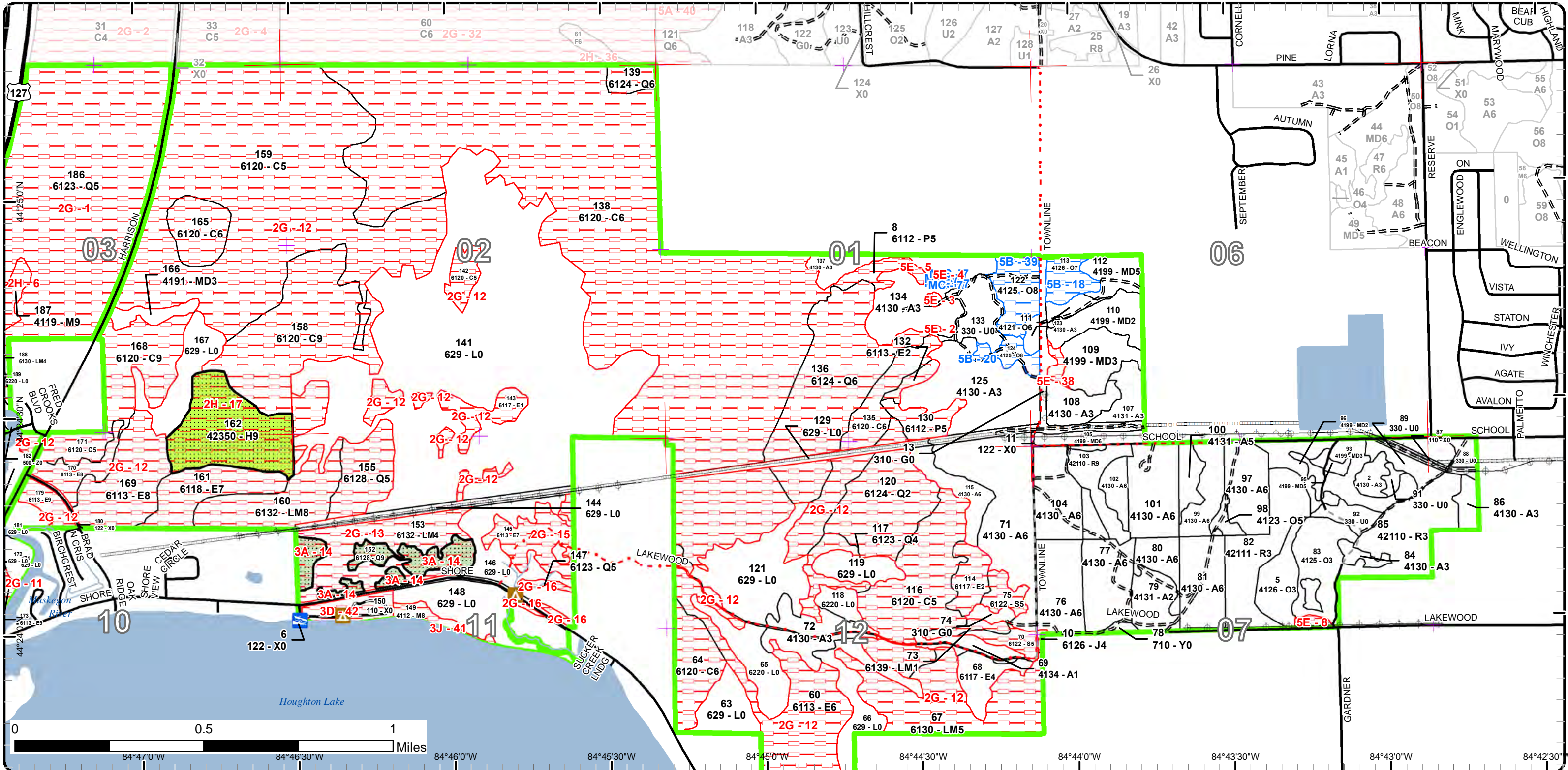


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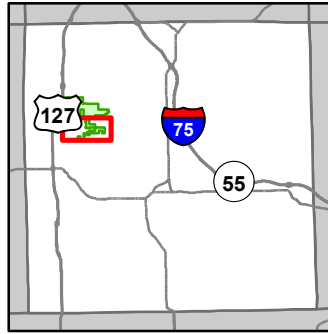


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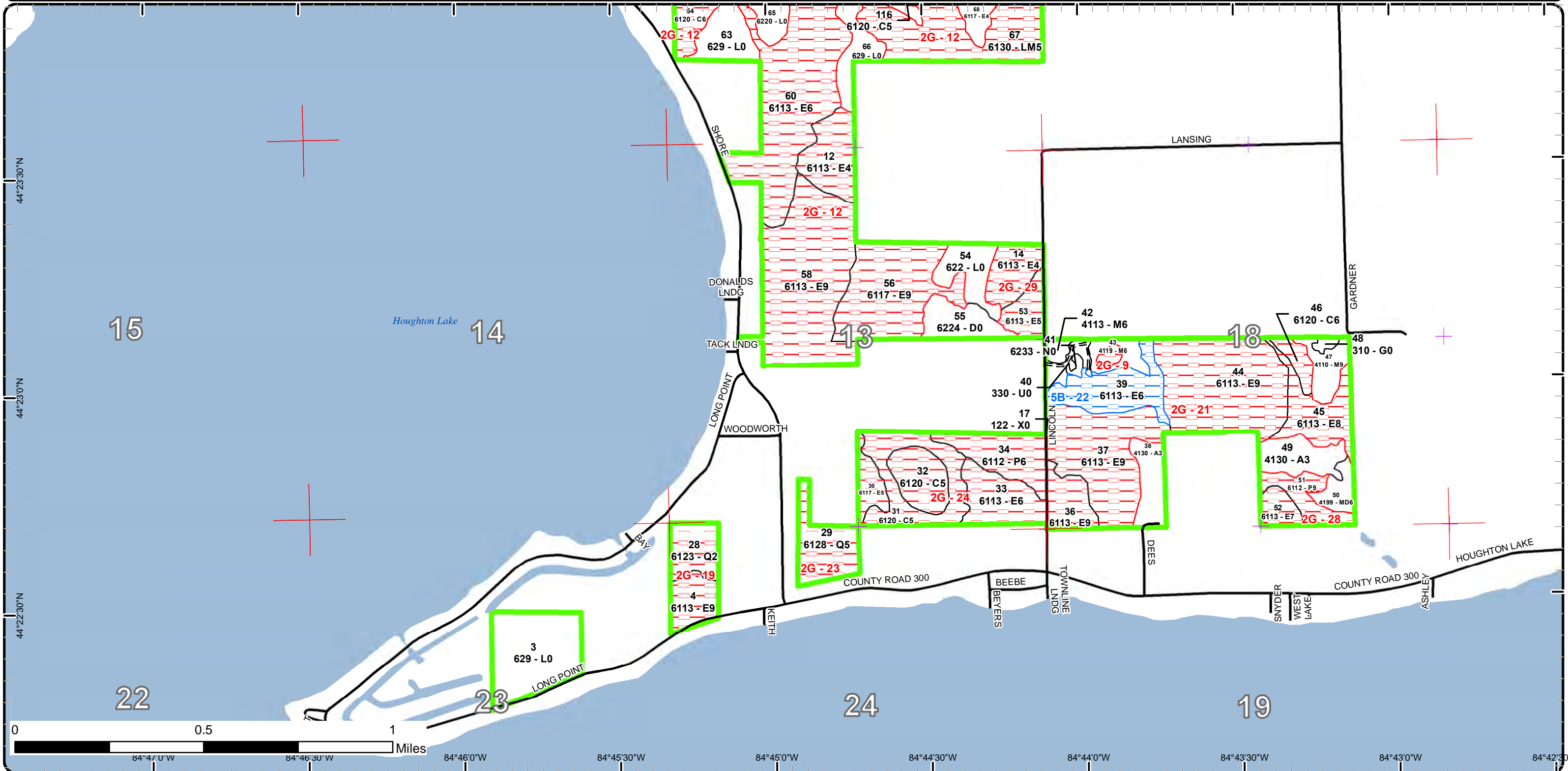


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- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- Stand Boundaries



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	66	67	90	105	42	0	0	0	0	0	0	0	0	0	0	0	0	370
Cedar	0	0	0	0	0	0	0	0	0	0	101	792	0	0	0	0	0	0	893
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	46	0	0	0	0	46
Herbaceous Openland	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Jack Pine	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Low-Density Trees	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	18	0	10	13	0	0	0	0	0	0	0	41
Lowland Conifers	0	0	0	0	0	0	283	0	0	6	22	29	0	0	0	0	20	0	360
Lowland Deciduous	0	0	3	0	27	0	18	0	17	168	123	187	0	0	0	0	0	0	543
Lowland Mixed Forest	0	0	0	0	4	0	0	0	0	0	97	28	0	0	0	0	0	0	129
Lowland Shrub	537	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	536
Lowland Spruce/Fir	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	32	23	0	6	2	15	0	6	0	0	0	0	0	0	0	0	0	84
Northern Hardwood	0	0	0	0	0	0	8	2	0	9	17	5	0	0	0	0	0	0	41
Oak	0	0	33	0	3	4	0	0	0	0	22	6	0	0	0	0	0	0	68
Red Pine	0	57	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	68
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Treed Bog	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Urban	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	646	155	126	90	145	59	336	20	23	193	395	1047	0	46	0	0	20	0	3299



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2024

Acres of Harvest

Compartment 7
Total Compartment Acres: 3,300

Commercial Harvest - 42
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen		42	0	0	0	0	0	0	0	0	42
	Total	42	0	0	0	0	0	0	0	0	42

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		42	0	0	0	0	11	0	21		74
Next Step		0	0	0	0	0	42	0	21		63
	Total	42	0	0	0	0	53	0	42		137



Stand Name	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:

71	71007071-Cut	42.3	4130 - Aspen	Poletimber Well	49		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" DBH and larger. Leave all white oak. Leave about 3% retention focused on any wet areas along the west side of the stand and in a pocket or two heavy to oak. Including drumming log specs.</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> Fully stocked stand of aspen mixed with oak, maple, and balsam fir.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
74	71007074.19_NF	2.6	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop/Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Dead Stream Field 7.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Herbaceous/Crop/Grass Planting</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2017</p>											
89	71007089-Monitor	10.7	330 - Low-Density Trees	Nonstocked	0	Immature	Monitoring	Artificial Regen(3yr)	4221 - Natural Red Pine	Even-Aged	No
<p><u>Prescription</u> third year check</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine with mixed deciduous to moderate stocking</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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92	71007092.27_ NF	5.4	330 - Low-Density Trees	Nonstocked		NonForestMgt	Mowing	310 - Herbaceous Openland		No
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Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Dead Stream Field 10.

Specs:

Next Step ; NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable

Regen:

Other Site is to be maintained by Wildlife Division.

Comment:

Site Condition:

Proposed Start Date: 10/1 /2015

133	71007133.20_ NF	12.3	330 - Low-Density Trees	Nonstocked		NonForestMgt	Mowing	310 - Herbaceous Openland		No
-----	--------------------	------	----------------------------	------------	--	--------------	--------	---------------------------------	--	----

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Dead Stream Field 12.

Specs:

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2017

133	71007133-NF	0.5	330 - Low-Density Trees	Nonstocked		NonForestMgt	Herbaceous/Crop/ Grass Planting	310 - Herbaceous Openland		No
-----	-------------	-----	----------------------------	------------	--	--------------	------------------------------------	---------------------------------	--	----

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Dead Stream Field 12.

Specs:

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2023

Total Treatment 73.8
Acreage Proposed:

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 7
 Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions											
		With Condition	Not Available		2E	5B	MC	2G	2H	3A	3D	3J	5E			
370	367	0	3	Aspen		0	0									3
893	0	0	893	Cedar				893								
46	0	0	46	Hemlock					46							
18	18	0	0	Herbaceous Openland												
1	0	0	1	Jack Pine				1								
38	38	0	0	Low-Density Trees		0										
41	0	0	41	Lowland Aspen/Balsam Poplar				41								0
360	0	0	360	Lowland Conifers				340		20						
543	18	21	504	Lowland Deciduous		21		504								
129	0	0	129	Lowland Mixed Forest				129								
536	536	0	0	Lowland Shrub											0	
11	0	0	11	Lowland Spruce/Fir				11								
1	1	0	0	Marsh												
85	83	0	2	Mixed Upland Deciduous												2
41	17	9	15	Northern Hardwood	9			2	8		0		5			
67	37	28	2	Oak		28										2
68	68	0	0	Red Pine												
1	1	0	0	Sand, Soil												
12	12	0	0	Treed Bog												
31	20	0	11	Urban				1			10					
8	8	0	0	Water												
3,300	1,226	58	2,016	Total Forested Acres	9	49	0	1,920	54	20	10	5				6
	37%	2%	61%	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	Dominant Site 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)	191	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

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2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Vernal Pond							
4	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Vernal Pond							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	Minor Change in Acreage	0				
Comments:							
8	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Compartment: 7

Year of Entry: 2024

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	2E: Road needed	9	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1,386	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3A: Conservation Values incompatible with harvest at this time	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Brian Martell : Examiner

Compartment: 7

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15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	46	3A: Conservation Values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments:							
20	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Brian Martell : Examiner

Compartment: 7

Year of Entry: 2024

21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	126	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5B: Maintain for regeneration purposes	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	2A: Adjacent landowner denied access	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	78	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
29	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit
 Brian Martell : Examiner

Compartment: 7
 Year of Entry: 2024

38	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
39	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
Comments:							
42	Unavailable	3D: Recreational / Scenic values	10	Unspecified	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
71072026	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA	39
Comments	Does not reflect actual stand outline			



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
2	4130 - Aspen	Sapling Well	4.7	5	Immature	N/A	Stand was cut in the summer 2017 and all white oak was left.																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>89</td> <td>Sapling</td> <td>1</td> <td>5</td> </tr> <tr> <td>Pin Cherry</td> <td>7</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>3</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>White Oak</td> <td>1</td> <td>Log/Pole/XLog</td> <td>16</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	89	Sapling	1	5	Pin Cherry	7	Sapling	1		Black/Red (Hybrid) Oak	3	Sapling	1		White Oak	1	Log/Pole/XLog	16																									
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White Oak	1	Log/Pole/XLog	16																																															
3	629 - Mixed non-forested wetland	Nonstocked	32.3	0		No	Mostly lowland shrub and looks like there are small pockets of mature trees.																																											
4	6113 - Lowland Maple	Sawtimber Well	10.4	100	81-110	N/A	Some standing dead ash in the canopy.																																											
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5	4126 - White, Black, N. Pin Oak	Sapling Well	12.6	10	Immature	N/A	Stand was thinned in 1998 removing all aspen and red maple then was burned. Shelterwood cut in 2007. Stand was to be understory burned again but several oak wilt pockets were found throughout the stand so it was final harvested to try and stop the spread in winter 2012. Some oak was left outside of wilt epicenters. A retention strip was left on the south end with an overhead powerline running through it. Because of the presence of oak wilt, red pine was planted spring 2015, FTP #C71-911, The red pine failed and the oak took over.																																											
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6	122 - Road/Parking Lot	Nonstocked	6.2			No																																												
8	6112 - Lowland Aspen	Poletimber Medium	5.3	90	1-50	N/A	Oldest aspen is over-mature and declining.																																											
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11	122 - Road/Parking Lot	Nonstocked	6.3	0		No																																								
12	6113 - Lowland Maple	Poletimber Poor	17.1	70	1-50	N/A	Almost all ash is dead. Areas that were heavy to ash are now mostly open.																																							
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13	310 - Herbaceous Openland	Nonstocked	13.7				Powerline																																							
14	6113 - Lowland Maple	Poletimber Poor	11.7	84	1-50	N/A	This stand was dominated by log-sized ash that is all dead now, leaving some red maple, balsam fir, and cedar. Most of the stand is open with wetland grasses and tag older taking over.																																							
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17	122 - Road/Parking Lot	Nonstocked	2.1	0		No																																								
28	6123 - Lowland Fir	Sapling Medium	11.9	100	1-50	N/A	Lots of dead ash on the ground and standing.																																							
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29	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	17.3	100	1-50	N/A																																								
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30	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	6.9	100	51-80	N/A																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
31	6120 - Lowland Cedar	Poletimber Medium	21.7	101	1-50	N/A	Dead ash will standing and on the ground
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		85	Pole/Log	8	101	Tag Alder	
Red Maple		10	Log/Pole	10		Ash (spp.)	
Balsam Fir		5	Sapling/Pole	4		Density	
						Avg. Height	
						Size	
32	6120 - Lowland Cedar	Poletimber Medium	13.7	101		N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Northern White Cedar		90	Pole/Sapling	7	101	Tag Alder	
Red Maple		5	Pole/Log/Sap	8		Ash (spp.)	
Balsam Fir		5	Pole/Sapling	5		Density	
						Avg. Height	
						Size	
33	6113 - Lowland Maple	Poletimber Well	17.2	99	51-80	N/A	Lots of dead ash standing and on the ground
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		5	Log	13		Red Maple	
Red Maple		95	Pole/Log/Sap	8	99	Balsam Fir	
						Northern White Cedar	
						Density	
						Avg. Height	
						Size	
34	6112 - Lowland Aspen	Poletimber Well	17.8	65		N/A	Dead ash standing and on the ground
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		2	Pole	7		Balsam Fir	
Quaking Aspen		90	Pole/Log	9	65	Red Maple	
Northern White Cedar		1	Pole	7		Ash (spp.)	
Balsam Fir		7	Pole/Sapling	5	104	Tag Alder	
						Density	
						Avg. Height	
						Size	
36	6113 - Lowland Maple	Sawtimber Well	10.7	85	81-110	N/A	Stand was marked to cut maple and all ash, but was never harvested. Now all ash is dead.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		99	Log/Pole	13	85	Red Maple	
Balsam Fir		1	Pole	6		Northern White Cedar	
						Balsam Fir	
						Density	
						Avg. Height	
						Size	
37	6113 - Lowland Maple	Sawtimber Well	40.4	85	51-80	N/A	Lots of dead ash standing and on the ground. Areas heavier to ash are now transitioning to open wetlands.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		87	Log/Pole/XLog	12	85	Balsam Fir	
Balsam Fir		7	Pole	6		Density	
Northern White Cedar		1	Pole	6		Avg. Height	
Quaking Aspen		5	Log	12		Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
38	4130 - Aspen	Sapling Well	10.9	8	Immature	N/A																																														
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39	6113 - Lowland Maple	Poletimber Well	20.7	85	51-80	N/A	Ash was salvaged from this stand as part of the Alligator ash sale.																																													
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40	330 - Low-Density Trees	Nonstocked	4.6		Immature	No																																														
41	6233 - Wet Meadow	Nonstocked	1.0			No																																														
42	4113 - R.Maple, Conifer	Poletimber Well	2.3	65	81-110	N/A	Small stand of upland red maple mixed with balsam and quaking aspen. A few birch																																													
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43	4119 - Mixed Northern Hardwoods	Poletimber Well	7.7	50	81-110	N/A	A good portion of the western half of the stand is a treed bog.																																													
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44	6113 - Lowland Maple	Sawtimber Well	51.9	85	81-110	N/A	Some maple was marked and all ash was to be cut as a part of alligator ash sale. Stand was never cut besides the northwest corner as conditions were too wet and never improved. Ash is dead now, standing and on the ground.																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
45	6113 - Lowland Maple	Sawtimber Medium	17.7	85	51-80	N/A	Stand had a large percentage of ash in it but it is all dead now. Areas that were heaviest to ash are now more like open wetlands. Looks like some red maple were marked to cut and all ash was to be cut as a part of alligator ash sale but the stand was never cut due to wet conditions.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		5	Pole	6		Balsam Fir		
Red Maple		70	Log/Pole	10	85	Low		
Northern White Cedar		9	Pole/Log	8		Variable		
Paper Birch		2	Pole	7		Sapling		
Quaking Aspen		14	Log/Pole	11				
46	6120 - Lowland Cedar	Poletimber Well	4.8	95	141-170	N/A	Nice little stand of northern hardwoods that was thinned as a part of alligator ash sale.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		10	Log/Pole	10		Balsam Fir		
Balsam Fir		2	Pole	7		Low		
Red Maple		3	Log/Pole	12		Variable		
Northern White Cedar		85	Pole/Log	8	95	Sapling		
Quaking Aspen		10	Log/Pole	10		Sapling		
47	4110 - Sugar Maple Association	Sawtimber Well	8.6	85	81-110	N/A	Nice little stand of northern hardwoods that was thinned as a part of alligator ash sale.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Yellow Birch		2	Log/Pole	10		Ironwood		
Beech		5	Log/Pole	12		Medium		
Paper Birch		2	Log/Pole	10		Variable		
Red Maple		5	Log/Pole	13		Sapling		
Sugar Maple		86	Log/Pole	13	85	Sapling		
48	310 - Herbaceous Openland	Nonstocked	1.3			No		
49	4130 - Aspen	Sapling Well	12.7	8	Immature	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Fir		1	Sapling	3		Balsam Fir		
Quaking Aspen		99	Sapling	2	8	Low		
						Variable		
						Sapling		
Black/Red (Hybrid) Oak						Sapling		
50	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.3	75	51-80	N/A	Stand of birch and red maple with some scattered mixed aspen. Birch is in decline.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		43	Pole/Log	8	75	Red Maple		
Quaking Aspen		5	Log/Pole	10		Low		
Bigtooth Aspen		5	Log/Pole	10		Variable		
Balsam Fir		5	Pole/Sapling	6		Sapling		
Red Maple		42	Pole/Sap/Log	6		Sapling		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
51	6112 - Lowland Aspen	Sawtimber Well	10.2	85	51-80	N/A	Stand of lowland quaking aspen that is in decline. There is some dead ash.																																							
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52	6113 - Lowland Maple	Sawtimber Poor	5.9	85	81-110	N/A	Was mostly ash but it is all dead now leaving some red maple behind as the dominant species.																																							
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53	6113 - Lowland Maple	Poletimber Medium	8.1	84	51-80	N/A	Lots of dead ash. Areas areas that were heavy to ash before are now being taken over by tag alder.																																							
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54	622 - Lowland Shrub	Nonstocked	12.1			No	Lots of dead ash and a few scattered live red maple.																																							
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55	6224 - Treed Bog	Nonstocked	12.2		Immature	No																																								
56	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	40.8	101		N/A																																								
58	6113 - Lowland Maple	Sawtimber Well	64.6	100	1-50	N/A	Red maple diameter goes from larger to smaller from west to east across the stand. Lots of dead ash both standing and on the ground. A couple areas along the south and east sides that were heavy to ash now have mostly open canopies.																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
60	6113 - Lowland Maple	Poletimber Well	76.9	95	1-50	N/A	Southern portion is mostly maple. Northern fingers are more open and have more balsam fir.																																																				
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63	629 - Mixed non-forested wetland	Nonstocked	12.9		Immature	No																																																					
64	6120 - Lowland Cedar	Poletimber Well	18.7	94	141-170	N/A																																																					
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65	6220 - Alder/willow	Nonstocked	16.2			No	Tag alder with scattered lowland trees. Not enough canopy coverage to make a forested stand.																																																				
66	629 - Mixed non-forested wetland	Nonstocked	17.7			No	Mostly tag alder and wetland grasses with some lowland tree species. Not enough canopy coverage to be forested.																																																				
67	6130 - Fir, Aspen, Maple	Poletimber Medium	45.9	95	1-50	N/A	Lots of blowdown and dead ash. Small upland ridge in the very south end middle of the stand.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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68 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Poor 10.0 50 1-50 N/A Very low end of the canopy coverage.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Pole/Log	9		Tag Alder	Full	10 - 20 feet	Tall Shrub
Paper Birch	5	Pole/Sapling	5					
Black Spruce	25	Pole/Sapling	6					
Red Maple	47	Pole/Sapling	5	50				
Balsam Fir	15	Pole/Sapling	6					
Balsam Poplar	3	Pole	8					

69 4134 - Aspen, Spruce/Fir Sapling Poor 6.0 20 Immature N/A Upland ridge grading into lowland on edges, cut 2002 with varying regeneration success.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	
Quaking Aspen	25	Sapling	2	20
Black/Red (Hybrid) Oak	5	Sapling	2	
Balsam Fir	10	Sapling	2	
Black Spruce	25	Sapling	2	
Bigtooth Aspen	25	Sapling	3	20

70 6122 - Black Spruce Poletimber Medium 5.0 49 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Sapling/Pole	3		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	80	Pole/Sap/Log	6	49	Leatherleaf	Full	< 5 feet	Tall Shrub
White Pine	5	Pole/Log/Sap	8		Labrador Tea	Medium	< 5 feet	Tall Shrub
Jack Pine	3	Sapling/Pole	3					
Balsam Fir	2	Sapling	3					
Red Maple	5	Sapling	2					

71 4130 - Aspen Poletimber Well 42.3 49 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	15	Log/Pole	12		Balsam Fir	Low	Variable	Sapling
Balsam Fir	5	Pole	7		Serviceberry (Juneberry)	Low	Variable	Sapling
Red Maple	3	Pole/Sapling	5		Pin Cherry	Low	Variable	Sapling
White Oak	2	Log	14		White Oak	Trace	Variable	Sapling
Quaking Aspen	75	Pole/Log	8	49	Black/Red (Hybrid) Oak	Low	Variable	Sapling
					Red Maple	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
72	4130 - Aspen	Sapling Well	15.9	20	Immature	N/A																																																
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73	6139 - Mixed Lowland Forest	Sapling Poor	3.6	31	Immature	N/A																																																
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74	310 - Herbaceous Openland	Nonstocked	2.6			Managed Opening																																																
75	6122 - Black Spruce	Poletimber Medium	5.7	47	1-50	N/A																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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78	710 - Sand, Soil	Nonstocked	1.4			Managed Opening	Northern edge of an old borrow pit that continues to the south on Markey Township Property. The bottom of the slope to the south is the seasonal county road, Lakewood Drive. A Resource Damage Report was created and entered into the system. The slope is being eroded by motorized vehicles of all types.
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79	4131 - Aspen, Oak	Sapling Medium	11.4	24	Immature	N/A	Final harvest done in 1998. This stand must have had a large percentage of oak in it. The aspen is in pockets where the original clones were. The other areas are more open with pin cherry and/or oak stump sprouts.
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Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	20	Sapling/Pole	2	
Bigtooth Aspen	60	Sapling/Pole	4	24
Pin Cherry	20	Sapling	2	

80	4130 - Aspen	Poletimber Well	8.2	24	Immature	N/A	Final harvest done in 1998.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Sapling/Pole	4		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Bigtooth Aspen	98	Pole/Sapling	5	24	White Oak	Low	Variable	Sapling
					Witch Hazel	Medium	5 - 10 feet	Tall Shrub
					Pin Cherry	Low	Variable	Sapling
					Red Maple	Medium	Variable	Sapling

81	4130 - Aspen	Poletimber Well	19.0	35	111-140	N/A	Aspen final harvest in 1987. Nice stand that has some log sized aspen showing up on the edges of more open areas. The south end of the stand drops from a ridge to the county road. There is a cattail marsh bowl of about 1/2 acre in between the ridge and the road. The ridge is mostly oak.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	1	Pole/Sapling	5		Red Maple	Low	Variable	Sapling
Bigtooth Aspen	93	Pole/Log/Sap	7	35	Pin Cherry	Low	Variable	Sapling
Black/Red (Hybrid) Oak	5	Pole/Sapling	5		Black/Red (Hybrid) Oak	Low	Variable	Sapling
White Oak	1	Pole/Sapling	5		Witch Hazel	Low	5 - 10 feet	Tall Shrub

82	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	27.6	7	1-50	N/A	Stand was thinned in 1998 removing all aspen and red maple then was burned. Shelterwood cut in 2007. Stand was to be understory burned again but several oak wilt pockets were found throughout the stand so it was final harvested to try and stop the spread in winter 2012. Some oak was left outside of wilt epicenters. A retention strip was left on the south end with an overhead powerline running through it. Because of the presence of oak wilt, red pine was planted spring 2015, FTP #C71-911, Release sprayed August 2017. Replanted spring 2018. Site was third year regen checked in 9/16/2020. Found 14% mortality and only 50% FTG. Stand was pre-commercially thinned in 2021 to take out the red pine's competition.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	70	Sapling	1	7
Red Oak	15	Log	14	
Black/Red (Hybrid) Oak	10	Sapling	2	
Red Maple	5	Sapling	2	

83	4125 - Black, N. Pin Oak	Sapling Well	20.2	15	Immature	N/A	Final harvested in the Fall 2007 then trenched and planted to red pine in 2010. Some oak was left. Very good oak regeneration.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	70	Sapling	3	15	Red Pine	Low	< 5 feet	Sapling
Red Pine	25	Sapling	2	12				
White Oak	5	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
84	4130 - Aspen	Sapling Well	5.1	15	Immature	N/A	A small aspen stand that was final harvest in the Fall 2007 with the larger oak stand it was surrounded by.																																			
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85	42110 - Planted Red Pine	Sapling Well	29.4	7	1-50	N/A	Stand was initially thinned in 1998 and then understory burned shortly after. It was then shelterwood cut in winter 2008. Several oak wilt pockets were found in the stand so it was final harvested in the winter 2012 to try and stop the spread. Overstory of some white oak and a couple red oak were left outside the wilt epicenters. Planted to red pine in Spring 2015. Release sprayed August 2017. Replanted spring 2018. Third year regeneration check done on 09/20/2020 and found 20% mortality with no need to replant but currently only 40% FTG so recommend another release spray. Stand was pre-commercially thinned in 2021 to take out the red pine's competition.																																			
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86	4130 - Aspen	Sapling Well	4.7	14	Immature	N/A	Cut in the fall 2008 removing all species but white oak and some other selected red oak.																																			
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87	110 - Low Intensity Urban	Nonstocked	3.5				Overhead powerline cooridor																																			
88	330 - Low-Density Trees	Nonstocked	3.1			No	Grass opening with multi-stemmed oak at the edges and some cherry. Not maintained by wildlife.																																			
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89	330 - Low-Density Trees	Nonstocked	10.0	0	Immature	4211 - Planted Red Pine	Stand was final harvested late summer 2017. All white oak left. Stand was trenched summer 2018. Planted with red pine in 2019. The first year check found the seedlings doing well with 15% mortality. Oak and cherry competition starting to grow up especially north of the powerline.																																			
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91	330 - Low-Density Trees	Nonstocked	1.8			4199 - Other Mixed Upland Deciduous	A grass opening not maintained by wildlife division containing a handful of large mature multi-stemmed oaks along the perimeter.																																								
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92	330 - Low-Density Trees	Nonstocked	5.4			Managed Opening	Opening maintained by wildlife division. Large oaks left around the perimeter, however, the north end ones have gotten oak wilt and pads were found on one. It has spread to most of the trees in this stand.																																								
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93	4199 - Other Mixed Upland Deciduous	Sapling Well	14.3	14	Immature	N/A	Stand final harvested in the Fall 2007 and was then trenched and planted to red pine in spring 2010. Scattered residual oak left. Large aspen clones were trenched around. Most of the red pine has been outcompeted and overtopped.																																								
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95	4199 - Other Mixed Upland Deciduous	Poletimber Medium	2.4	41	1-50	N/A	Old opening with oak and cherry filling in																																								
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96	4199 - Other Mixed Upland Deciduous	Sapling Medium	9.1	15	1-50	N/A	Harvest was done in the fall of 2007 where all species but white oak were cut. Only marked white oak was cut.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
98	4123 - Red Oak	Poletimber Medium	2.8	35	51-80	N/A	This stand is a combination of two stands cut about 11 years apart. The side west of the two-track was cut most recently and is by far the most open. It has some aspen filling in from the stand to the west and has a few stump sprout clusters of red maple and oak. East of the two-track is 11 years older and is from a separate parent aspen stand cut that did not come back to aspen. It is an even mix of both red maple and oak stump sprouts, but pole sized. There are some aspen intermixed.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		1	Pole/Sapling	5		Red Oak		Low	Variable	Sapling	
Red Maple		10	Pole/Sapling	5		Bigtooth Aspen		Low	Variable	Sapling	
Red Oak		87	Pole/Sapling	5	35	Witch Hazel		Low	5 - 10 feet	Tall Shrub	
Bigtooth Aspen		2	Pole/Sapling	5		Red Maple		Low	Variable	Sapling	
99	4130 - Aspen	Poletimber Well	11.7	24	Immature	N/A	Final harvest done in 1998.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		95	Pole/Sapling	5	24	Red Maple		Medium	Variable	Sapling	
Red Oak		3	Sapling/Pole	4		Black/Red (Hybrid) Oak		Low	Variable	Sapling	
Red Maple		2	Sapling/Pole	3		Witch Hazel		Low	5 - 10 feet	Tall Shrub	
100	4131 - Aspen, Oak	Poletimber Medium	6.1	24	Immature	N/A	Final harvest done in 1998. Pockets dominated by aspen and pockets dominated by oak.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Bigtooth Aspen		40	Pole/Sapling	5	24	Pin Cherry		Low	Variable	Sapling	
White Oak		3	Sapling/Pole	4		Witch Hazel		Medium	5 - 10 feet	Tall Shrub	
Red Maple		10	Sapling/Pole	4		Red Maple		Medium	Variable	Sapling	
Black/Red (Hybrid) Oak		47	Pole/Sapling	5	24						
101	4130 - Aspen	Poletimber Well	21.2	35	111-140	N/A	Final harvested in 1987.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple		3	Sapling/Pole	4		Red Maple		Medium	Variable	Sapling	
Red Oak		2	Sapling/Pole	4		Black/Red (Hybrid) Oak		Low	Variable	Sapling	
Bigtooth Aspen		95	Pole/Log/Sap	7	35	Witch Hazel		Low	5 - 10 feet	Tall Shrub	
						Pin Cherry		Low	Variable	Sapling	
						White Oak		Trace	>20 feet	Sapling	
						Serviceberry (Juneberry)		Trace	10 - 20 feet	Sapling	
102	4130 - Aspen	Poletimber Well	10.7	24	1-50	N/A	Was clearcut in 1998. The north strip along School Road is mostly oak regeneration.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Oak		2	Sapling/Pole	4		Red Maple		Medium	Variable	Sapling	
Red Maple		6	Sapling/Pole	4		Witch Hazel		Medium	5 - 10 feet	Tall Shrub	
Black/Red (Hybrid) Oak		6	Sapling/Pole	4		Black/Red (Hybrid) Oak		Low	Variable	Sapling	
Bigtooth Aspen		81	Pole/Sapling	5	24						
Pin Cherry		5	Sapling/Pole	4							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
103	42110 - Planted Red Pine	Sawtimber Well	11.3	57	111-140	N/A	1965 plantation that was third rowed thinned in 2009. Thinned the red pine in the end of the summer 2017 down to an average of 90 basal area. Removed all other species as well. Large wolfy oaks left for mast.																																																		
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104	4130 - Aspen	Poletimber Well	17.9	35		N/A	Clearcut in 1987. Just coming into pole size.																																																		
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105	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.3	51	51-80	N/A	Looks like the westernmost 1 ac underburned. The middle piece was harvested in 2005, but isn't big enough to be its own stand. The very eastern end is mixed age aspen.																																																		
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109	4199 - Other Mixed Upland Deciduous	Sapling Well	18.1	7	Immature	N/A	Site final harvested fall 2015 and was planted to red pine in 2016 under FTP C71-934. Planting failed but stand is fully stocked with natural regeneration.																																											
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110	4199 - Other Mixed Upland Deciduous	Sapling Medium	14.0	7	1-50	N/A	Harvested in Fall 2015. Did not have white pine underplanted in it.																																											
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111	4121 - Oak, Aspen	Poletimber Well	3.5	44	51-80	N/A																																												
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112	4199 - Other Mixed Upland Deciduous	Poletimber Medium	9.2	51	51-80	N/A	Unhealthy aspen mixed with heavy cherry and some oak. Knapweed and sweet fern ground cover.																																											
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Quaking Aspen	Low	Variable	Sapling																																															
113	4126 - White, Black, N. Pin Oak	Sawtimber Poor	8.4	94	1-50	N/A	Harvested in the spring 2015. Was slated for underplanting of white pine, but the natural regeneration didn't warrant the planting. Southern quarter of the stand is a full canopy coverage aspen clone.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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114 6117 - Lowland Deciduous, Mixed Coniferous Sapling Medium 9.3 31 Immature N/A Commercially cut 1991.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	28	Sapling/Pole	4	31	Tag Alder	High	10 - 20 feet	Tall Shrub
Red Maple	30	Sapling/Pole	4	31	Balsam Fir	Medium	< 5 feet	Seeding
Black/Red (Hybrid) Oak	2	Sapling/Pole	4					
Balsam Fir	15	Sapling/Pole	3					
Tamarack	5	Sapling/Pole	3					
Paper Birch	15	Sapling/Pole	3					
Black Spruce	5	Sapling/Pole	3					

115 4130 - Aspen Poletimber Well 10.5 30 Immature N/A Stand is a transition zone between lowland to the west and upland to the east. Southern end has thick balsam fir regen and seems wetter.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	5	Pole/Log	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	5	Pole/Sapling	6		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	75	Pole/Sapling	5	30				
Red Maple	15	Sapling/Pole	4	30				

116 6120 - Lowland Cedar Poletimber Medium 49.0 95 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	50	Pole/Log/Sap	7	95	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	20	Pole/Sapling	6		Red Maple	Low	Variable	Sapling
Black Spruce	9	Pole	6		Balsam Fir	Medium	Variable	Sapling
Paper Birch	4	Pole	6					
Red Maple	16	Pole/Log	8					
Hemlock	1	Pole/Log	8					

117 6123 - Lowland Fir Poletimber Poor 8.0 54 1-50 N/A Lots of blowdown.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole/Log/Sap	7		Tag Alder	High	10 - 20 feet	Tall Shrub
Balsam Fir	65	Pole	7	54	Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	15	Pole/Log	8		Quaking Aspen	Low	Variable	Sapling
Red Maple	5	Pole/Log	8	95				

118 6220 - Alder/willow Nonstocked 5.1 No

119 629 - Mixed non-forested wetland Nonstocked 9.7 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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120 6124 - Lowland Spruce-Fir Sapling Medium 37.1 54 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	47	Sapling/Pole	4	54	Tag Alder	Full	5 - 10 feet	Tall Shrub
Black Spruce	33	Pole	7	54				
Paper Birch	15	Pole/Sapling	6					
Red Maple	3	Pole/Sapling	5					
Balsam Poplar	2	Pole/Sapling	5					

121 629 - Mixed non-forested wetland Nonstocked 32.5 No

122 4125 - Black, N. Pin Oak Sawtimber Medium 13.9 97 1-50 N/A Shelter-wood cut in 2010. Oak regeneration ranges from 1-10 feet tall.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	95	Log/Pole	13	97	Black/Red (Hybrid) Oak	High	Variable	Seeding
White Oak	5	Log/Pole	10		White Oak	Low	Variable	Seeding
					Pin Cherry	Low	5 - 10 feet	Sapling
					Red Maple	Low	5 - 10 feet	Sapling

123 4130 - Aspen Sapling Well 2.3 14 Immature N/A Cut 2008

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	3	Sapling	1	
Bigtooth Aspen	90	Sapling	2	14
White Oak	1	Sapling	1	
Pin Cherry	5	Sapling	1	
Black/Red (Hybrid) Oak	1	Log	12	

124 4125 - Black, N. Pin Oak Sawtimber Medium 5.8 104 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	90	Log/Pole/XLog	15	104	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Black Cherry	5	Pole/Sap/Log	7		Pin Cherry	Low	Variable	Sapling
White Oak	5	Log/Pole	10		Red Maple	Low	>20 feet	Pole
					Red Maple	High	Variable	Sapling

125 4130 - Aspen Sapling Well 36.7 14 Immature N/A Cut 2008.

Canopy Species	% Cover	Size Class	DBH	Age
White Oak	1	Sapling	1	
Pin Cherry	3	Sapling	1	
Black/Red (Hybrid) Oak	3	Sapling	1	
Black/Red (Hybrid) Oak	4	Log	15	
Quaking Aspen	80	Sapling	2	14
Red Maple	9	Sapling	1	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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129 629 - Mixed non-forested wetland Nonstocked 7.3 Powerline.

130 6112 - Lowland Aspen Poletimber Medium 8.0 90 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	15	Pole/Sapling	7		Tag Alder	Full	10 - 20 feet	Tall Shrub
Black Spruce	5	Pole	7					
Quaking Aspen	30	Log/Pole	11	90				
Red Maple	5	Sapling/Pole	4					
Balsam Fir	30	Pole/Sapling	6					
Paper Birch	15	Pole/Sapling	5					

132 6113 - Lowland Maple Sapling Medium 3.1 14 Immature N/A Cut spring 2008

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Pin Cherry	1	Pole/Sapling	5		Tag Alder	High	5 - 10 feet	Tall Shrub
Red Maple	3	Log	14					
Black/Red (Hybrid) Oak	15	Sapling	2					
Balsam Fir	5	Sapling/Pole	3					
Paper Birch	5	Pole/Sapling	5					
Red Maple	69	Sapling/Pole	3	14				
Quaking Aspen	2	Log	12					

133 330 - Low-Density Trees Nonstocked 12.8 Managed Opening Maintained wildlife opening.

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	>20 feet	Pole
Quaking Aspen	Low	>20 feet	Pole
Black/Red (Hybrid) Oak	Medium	>20 feet	Log

134 4130 - Aspen Sapling Well 31.5 1 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	92	Sapling	1	1
Black/Red (Hybrid) Oak	5	Log/Pole	13	
Red Maple	1	Sapling	1	1
Pin Cherry	1	Sapling	1	1
Black/Red (Hybrid) Oak	1	Sapling	1	

Cut Winter 2021, 4 small wetter potholes left with buffers on them, left all oak for wildlife mast. Red maple is being browsed hard. Possibly merge with stand 137 to the west once regen is more mature and you can tell if the stands are similar enough.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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135 6120 - Lowland Cedar Poletimber Well 28.5 95 N/A Species other than cedar are in the northern point of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	3	Pole/Sap/Log	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	83	Pole/Log/Sap	7	95				
Balsam Fir	10	Pole/Sapling	6					
Paper Birch	3	Pole	7					
Quaking Aspen	1	Pole	8					

136 6124 - Lowland Spruce-Fir Poletimber Well 64.6 54 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	43	Pole/Sapling	5	54	Tag Alder	High	10 - 20 feet	Tall Shrub
Black Spruce	40	Pole/Sapling	6	54	Balsam Fir	Medium	Variable	Sapling
Paper Birch	5	Pole	8					
Red Maple	5	Pole	8					
Balsam Poplar	2	Pole	7					
Quaking Aspen	5	Pole/Log	8					

137 4130 - Aspen Sapling Well 6.5 1 1-50 N/A Cut Winter 2021, left scattered oak. Possibly merge with stand 134 to the east once regen is more mature and you can tell if the stands are similar enough.

Canopy Species	% Cover	Size Class	DBH	Age
Black/Red (Hybrid) Oak	1	Sapling	1	
White Oak	1	Log/Pole	10	
Red Maple	1	Sapling	1	
Quaking Aspen	90	Sapling	1	1
Black/Red (Hybrid) Oak	7	Log/Pole	12	

138 6120 - Lowland Cedar Poletimber Well 408.6 108 N/A Wet cedar stand with some blowdown.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	15	Pole/Log	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	5	Pole/Sapling	6		Black Spruce	Low	Variable	Sapling
Northern White Cedar	60	Pole/Log/Sap	7	108	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	20	Pole/Sapling	6					

139 6124 - Lowland Spruce-Fir Poletimber Well 5.9 89 111-140 N/A The middle of the stand is a ridge of highground with an illegal road and shooting lanes cut from private to the east.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black/Red (Hybrid) Oak	2	Log/Pole	12		Balsam Fir	Medium	5 - 10 feet	Sapling
Paper Birch	5	Pole	7		Black Spruce	Medium	Variable	Sapling
Northern White Cedar	32	Log/Pole	10	89	Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	30	Pole/Log	8	89	Black/Red (Hybrid) Oak	Low	Variable	Sapling
Balsam Fir	20	Pole	7					
White Pine	1	XLog/Log	18					
Red Maple	10	Log/Pole	11					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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141	629 - Mixed non-forested wetland	Nonstocked	270.2			No	Mostly tag alder with less than 25% canopy coverage of mixed lowland trees.
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142	6120 - Lowland Cedar	Poletimber Medium	6.6	107		N/A	Cedar/fir stand on slightly higher ground in the middle of tag alder.
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143	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Poor	17.8	34	1-50	N/A	Habitat cut in 1988. Regeneration is sparse and still sapling sized. Some scattered pole trees left from cut.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	45	Sapling	2	34	Tag Alder	Full	Variable	Tall Shrub
Balsam Fir	28	Sapling/Pole	3					
Northern White Cedar	2	Pole	6					
Red Maple	25	Sapling	2					

144	629 - Mixed non-forested wetland	Nonstocked	9.9			Managed Opening	Overhead powerline cleared right-of-way corridor
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145	6113 - Lowland Maple	Sawtimber Poor	17.9	100	1-50	N/A	Pockets heavy to dead ash that are now mostly open.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	7		White Ash	Medium	Variable	Sapling
Northern White Cedar	10	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	1	Pole/Log	9		Tag Alder	Medium	Variable	Tall Shrub
Red Maple	76	Log/Pole	12	100	Red Maple	Low	Variable	Sapling
Hemlock	1	XLog/Log	20					
Paper Birch	2	Pole	7					

146	629 - Mixed non-forested wetland	Nonstocked	25.0			No	
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147	6123 - Lowland Fir	Poletimber Medium	3.4	98	1-50	N/A	Lots of ash that is all dead now.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log/Pole	10		Balsam Fir	High	Variable	Sapling
Balsam Fir	64	Pole/Sapling	5	98	Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	1	Log/Pole	10					
Bigtooth Aspen	10	Pole/Log	8					

148	629 - Mixed non-forested wetland	Nonstocked	29.6			No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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149 4112 - Maple, Beech, Cherry Association Sawtimber Medium 5.1 108 81-110 N/A Uplands right along the lake edge transitioning to lowland to the north.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Beech	1	Pole	8		Balsam Fir	Low	Variable	Sapling
Paper Birch	1	Pole	7		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black/Red (Hybrid) Oak	5	Log/Pole	11		White Pine	Low	Variable	Sapling
White Pine	2	Log/XLog	14					
Red Maple	86	Log/Pole	12	108				
Balsam Fir	5	Pole	7					

150 110 - Low Intensity Urban Nonstocked 9.7 Managed Opening Houghton Lake State Forest Campground managed by Parks & Recreation Division

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	>20 feet	Log

152 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 20.2 159 171-200 N/A Mostly hemlock with pockets of red maple and some cedar around the edges. Some XLog white pine in the western most pocket if the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	1	XLog/Log	20		Balsam Fir	Low	Variable	Sapling
Red Maple	29	Log/Pole	12		Red Maple	Low	Variable	Sapling
Northern White Cedar	5	Pole	8					
Paper Birch	1	Pole	7					
Hemlock	64	Log/Pole/XLog	15	159				

153 6132 - Mixed Lowland Forest with Cedar Poletimber Poor 32.4 90 1-50 N/A Lots of dead ash standing and on the ground.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	20	Pole/Sapling	6		Tag Alder	Full	Variable	Tall Shrub
Balsam Fir	25	Sapling/Pole	3		Ash (spp.)	Low	Variable	Sapling
Paper Birch	5	Sapling/Pole	3					
Red Maple	50	Pole/Sap/Log	7	90				

155 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 18.7 98 51-80 N/A Was alot of ash in overstory that is now dead.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Log/Pole	10	98	Tag Alder	High	Variable	Tall Shrub
Balsam Fir	25	Pole/Sapling	6		Red Maple	Low	Variable	Sapling
Northern White Cedar	40	Pole/Log	8	98	Ash (spp.)	Low	Variable	Sapling
Black Spruce	5	Pole	8					
Paper Birch	5	Pole/Sapling	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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158 6120 - Lowland Cedar Sawtimber Well 63.7 106 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	25	Pole	7		Ash (spp.)	Medium	Variable	Sapling
Northern White Cedar	75	Log/Pole	10	106	Northern White Cedar	Low	>20 feet	Sapling
					Tag Alder	Low	5 - 10 feet	Tall Shrub

159 6120 - Lowland Cedar Poletimber Medium 222.1 101 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	9	Pole/Log/Sap	7		Tag Alder	High	Variable	Tall Shrub
Paper Birch	5	Sapling/Pole	4					
Red Maple	5	Pole/Log/Sap	7					
White Pine	1	XLog/Log	18					
Black Spruce	5	Pole/Sapling	6					
Balsam Fir	25	Pole/Sapling	6					
Northern White Cedar	50	Pole/Sap/Log	7	101				

160 6132 - Mixed Lowland Forest with Cedar Sawtimber Medium 28.1 105 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	45	Log/Pole	11		Red Maple	Low	Variable	Sapling
Balsam Fir	5	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	50	Pole/Log	8	105	White Ash	High	Variable	Sapling

161 6118 - Lowland Deciduous with Cedar Sawtimber Poor 21.2 98 1-50 N/A Lots of dead ash on the ground and standing.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole	7		Red Maple	Medium	Variable	Sapling
Northern White Cedar	20	Pole	7		Ash (spp.)	Full	Variable	Sapling
Red Maple	75	Log/Pole	13	98	Tag Alder	Low	5 - 10 feet	Tall Shrub

162 42350 - Upland Hemlock Sawtimber Well 46.4 129 201+ N/A Hemlock with some white pine and maple. There are some wet depressions with lowland shrubs. Far northeastern corner has more pine and cedar.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	XLog	20		Hemlock	Medium	>20 feet	Sapling
Hemlock	79	Log/XLog/Pole	14	129	Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	4	Pole	7					
Northern White Cedar	2	Pole	7					
Red Maple	10	Log/Pole	13					

165 6120 - Lowland Cedar Poletimber Well 15.4 100 Unspecified N/A Evidence of some old fencing in stand. Imagery shows an old fence that enclosed about 75 percent of the stand. Appears to be an enclosure experiment more than likely to keep deer out of the cedar but there is no records found to confirm this,

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	5	Pole/Log	8		Northern White Cedar	Low	>20 feet	Sapling
Northern White Cedar	88	Pole/Log	9	100				
Paper Birch	7	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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166 4191 - Mixed Upland Deciduous with Conifer Sapling Well 5.5 37 1-50 N/A A narrow ridge that was cleacut in 1985 for aspen regeneration.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	4	Pole/Sapling	5		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	15	Pole/Sapling	5	37	Red Maple	Low	Variable	Sapling
Red Maple	40	Sapling/Pole	4	37	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	35	Sapling/Pole	4	37				
White Oak	1	Log	15					
Paper Birch	1	Sapling/Pole	4					
Black/Red (Hybrid) Oak	4	Log	15					

167 629 - Mixed non-forested wetland Nonstocked 17.7 Immature No There are some sapling cedars but not enough to make it forested.

168 6120 - Lowland Cedar Sawtimber Well 29.2 103 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Pole	7		Tag Alder	Medium	Variable	Tall Shrub
Balsam Fir	38	Pole/Sapling	7		Black Ash	Low	5 - 10 feet	Sapling
Northern White Cedar	58	Log/Pole	11	103	Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple	2	Pole	7					

169 6113 - Lowland Maple Sawtimber Medium 30.2 102 81-110 N/A A large wide channel runs through the middle of this stand in a north/south direction. Other smaller drains flow into this channel from surrounding stands. This channel eventually dumps into the Muskegon River. Lots of dead ash. Lower canopy coverage in the north part of the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	100	Log/Pole	12	102	Ash (spp.)	High	Variable	Sapling
					American Elm	Low	>20 feet	Pole
					Northern White Cedar	Trace	>20 feet	Pole
					Red Maple	Low	Variable	Sapling

170 6113 - Lowland Maple Sawtimber Medium 9.9 102 81-110 N/A Mature ash that was in the stand is now dead leaving the canopy coverage low. Ash is regenerating heavily in some pockets.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	98	Log/Pole	12	102	Red Maple	Medium	Variable	Sapling
Northern White Cedar	2	Pole	7		Tag Alder	Medium	10 - 20 feet	Tall Shrub
					White Ash	Medium	Variable	Sapling
					Balsam Fir	Low	5 - 10 feet	Sapling

171 6120 - Lowland Cedar Poletimber Medium 10.5 105 N/A There was some ash in the canopy but it's all dead now and mostly blown over. Ash regeneration is heavy in these open gaps.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Log/XLog/Pole	12		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	75	Pole/Log	8	105	Ash (spp.)	High	10 - 20 feet	Sapling
Balsam Fir	5	Pole	6		Red Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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172	629 - Mixed non-forested wetland	Nonstocked	7.1		Immature	No	Mostly cattail marsh along Muskegon River.								
				<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Cattail spp.</td> <td>Full</td> <td></td> <td>Non-Wood</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Cattail spp.	Full		Non-Wood		
Sub-Canopy Species	Density	Avg. Height	Size												
Cattail spp.	Full		Non-Wood												

173	6113 - Lowland Maple	Sawtimber Well	8.1	97	81-110	N/A																																																				
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174	629 - Mixed non-forested wetland	Nonstocked	2.1		Unspecified		Wet powerline
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175	122 - Road/Parking Lot	Nonstocked	1.8			No	Mead and River Roads
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176	6113 - Lowland Maple	Poletimber Well	8.3	55	1-50	N/A																																											
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177	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	9.4	97	111-140	N/A	Standing dead ash. Lots of pole/sapling maple and some oak that needs time to grow into the next product. Deep water filled ditches on the road make access difficult.																																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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179	6113 - Lowland Maple	Sawtimber Well	6.3	102	81-110	N/A	Dead ash both standing and on the ground.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	95	Log/Pole	12	102	Tag Alder	Medium	10 - 20 feet	Tall Shrub
Balsam Fir	2	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
Hemlock	1	Log	14		White Ash	Low	5 - 10 feet	Sapling
Northern White Cedar	2	Pole	8					

180	122 - Road/Parking Lot	Nonstocked	1.4			No	Bradford Road
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181	629 - Mixed non-forested wetland	Nonstocked	15.7			No	
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Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	10 - 20 feet	Tall Shrub
Cattail spp.	Full		Non-Wood

182	500 - Water	Nonstocked	8.1			No	Muskegon River
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186	6123 - Lowland Fir	Poletimber Medium	173.2	50		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	35	Pole/Log/Sap	7	100	Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	5	Pole	5					
Balsam Fir	54	Pole/Sapling	5	50				
Paper Birch	5	Pole/Sapling	6					
White Pine	1	Log	16					

187	4119 - Mixed Northern Hardwoods	Sawtimber Well	7.7	97	81-110	N/A	Pockets of cedar mostly around the perimeter transition to the higher ground maple.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	69	Log/Pole	12	97	Red Maple	Low	Variable	Sapling
Northern White Cedar	10	Log/Pole	10		Balsam Fir	High	Variable	Sapling
Balsam Fir	5	Pole	7		Black/Red (Hybrid) Oak	Low	Variable	Sapling
Quaking Aspen	10	Pole/Log	8		Ash (spp.)	High	Variable	Sapling
Paper Birch	5	Pole	7					
Basswood	1	Pole/Log	9					

188	6130 - Fir, Aspen, Maple	Poletimber Poor	18.7	97	1-50	N/A	Heavy wetland grass and tag alder ground cover with some scattered lowland trees.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log/Pole	11	97	Tag Alder	High	5 - 10 feet	Tall Shrub
Balsam Fir	35	Pole/Sapling	6					
Northern White Cedar	15	Pole	9					
Quaking Aspen	5	Log/Pole	10					
Paper Birch	5	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
189	6220 - Alder/willow	Nonstocked	13.5			No	