



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54134

Entry Year 2020

Acreage: 2,655

County Presque Isle

Management Area: Cheboygan Lake Plain

Revision Date: 2018-05-09

Stand Examiner: Daniel Natzke

Legal Description:

T34N, R03E, Sec. 16, 17, 18, 19, 20, 21, 27, 28, 29, 30, 32, 33, 34, 35 & 36. Also T33N, R03E, Sec. 3.

Identified Planning Goals:

Compartment 134's management goals include timber management and wildlife habitat.

Soil and topography:

Topography across compartment 134 is generally low-lying and flat, apart from rare instances of gently rolling uplands adjacent to private land and steep, narrow sandy ridges that meander through lowlands. Lowland forested and non-forested cover types, such as deciduous and coniferous swamps, and lowland brush and marsh make up much of the compartment. The compartment traces two branches of the Rainy River, including the probable headwaters of one of these branches, and contains portions of the Gorman or Mormon Lakes in the southeast.

This compartment is widely dispersed geographically, partially covering roughly the southern half of Case Township south of Millersburg and the North East State Trail (NEST). The compartment may be described as two chunks that run in rough parallels along branches of the Rainy River northwest to southeast. The western chunk consists of the following soil associations: Croswell-Pinconning-Hettinger, Au Gres-Roscommon, and Cathro-Lupton-Tawas. This area tends to include the more poorly drained of the associations, including mucks, loams, and sands with hydric features close to the surface, with a few ridges made up of the moderately well drained Croswell soils and rare instances of the excessively drained Rubicon soil. The eastern chunk includes the same soil associations with the addition of the Rubicon-Cheboygan-Graycalm association. These soils are well drained to excessively well drained and are found on moraines, drumlins, outwash plains and till plains. These dry sands undergird the natural pine stand growing between the Gorman Lakes.

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

Private ownership surrounds the numerous landlocked parcels that make up this compartment. Oil and gas infrastructure may be found, particularly in the compartment's west. Individuals and hunt clubs own the private land surrounding the compartment with a range of uses including agriculture, recreational hunting and trapping, and residential use. The public most commonly uses the compartment for hunting and trapping. Indeed, the compartment might best be suited for providing wildlife habitat and ecosystem services such as natural flood control, water storage and water purification. Limited opportunities exist for timber harvest due to the widespread nature of sensitive soils and extremely poor public road access.

Unique Natural Features:

Unique natural features have not been identified in this compartment.

Archeological, Historical, and Cultural Features:

A search of the historical and archaeological database did not reveal any potential sites of archaeological, historical or cultural importance.

Special Management Designations or Considerations:

The East Branch of the Rainy River is designated a special conservation area (SCA). Were harvest activities planned along this branch of the Rainy River, buffers appropriate for the harvest method and to discourage beaver activity should be considered. Wet soils virtually exclude harvest opportunities where this SCA passes through state ownership. This compartment's difficult access, long hauling distances, should access be found, the prevalence of fragile and seasonally saturated soils, and the presence of threatened, endangered or species of special concern complicate harvest planning.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Three active sand/gravel pits are located in close proximity (all on topographic highs), but development of any potential sand & gravel within the compartment may be limited by wetlands/shallow water table. There does not appear to be significant bedrock non-metallic mineral (limestone) potential. The compartment is located in the Niagaran reef trend. There has been extensive drilling in the area. There are several producing wells in the compartment along with numerous dry holes. There are a number of active leases in the compartment, and there is potential for discovery of additional Niagaran reef reservoirs. The Niagaran reefs have proven to be good reservoirs for underground gas storage. Potential for gas storage here is probably low due to the distance from necessary infrastructure. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access is best from Rainy Lake Road, which bisects the compartment's eastern chunk, from the southern end of Smith Road and from the southern end of McIntosh Road. The NEST intersects a few corners of the compartment. Besides these few points, interested parties must contact private landowners for permission to cross into state land. In sum, vehicle access is extremely poor.

Survey Needs:

Unless timber sale preparers can find survey monuments, almost every common private-public boundary requires surveys to establish their true location.

Recreational Facilities and Opportunities:

One DNR sponsored recreational trail traverses the northern edge of portions of the compartment: the North East State Trail (NEST). This walking, biking and equestrian trail becomes a groomed snowmobile trail in the winter months. Beyond this, the compartment contains no formal recreational infrastructure. The best recreation opportunities in the compartment include hiking, wildlife viewing, mushrooming, berry picking, hunting, fishing, and trapping.

Fire Protection:

In the case of a wildland fire, response to Compartment 134 will be from the Onaway DNR office as well as the Millersburg Township Volunteer Fire Department.

Additional Compartment Information:

Local oral history suggests the swamp on either side of Rainy Lake Road was originally tamarack at the time of the cutover in the late 19th and early 20th centuries. It is probable that its understory was cedar which became a dominant species in the area as these saplings and seedlings slowly grew into the stands we know today.

A few general patterns could be seen in tree ring data. The oldest trees, roughly 130-150 years old showed a release about 80-100 years ago. This release resulted in a new cohort. The rings show growth increasingly slowing, especially after about 50-60 years ago sometimes leading to tightly compressed rings suggesting stagnation in the last 20-30 years. This evidence aligns with the pattern of the cutover, the big slash fires of the early 20th century and the maturation of the second-growth forest. Several old ice roads and railroad beds are evident, especially in sections 32 and 34. Old fire-scarred stumps are a relatively common sight throughout the compartment. Notably, some were roughly waist or chest height and achieved up to four feet in diameter. This seems to indicate some impressive white pine were present on the higher ground before the cutover.

The following reports from the Inventory are attached:

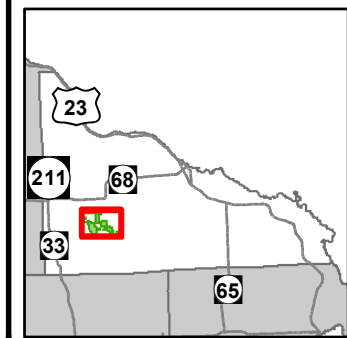
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

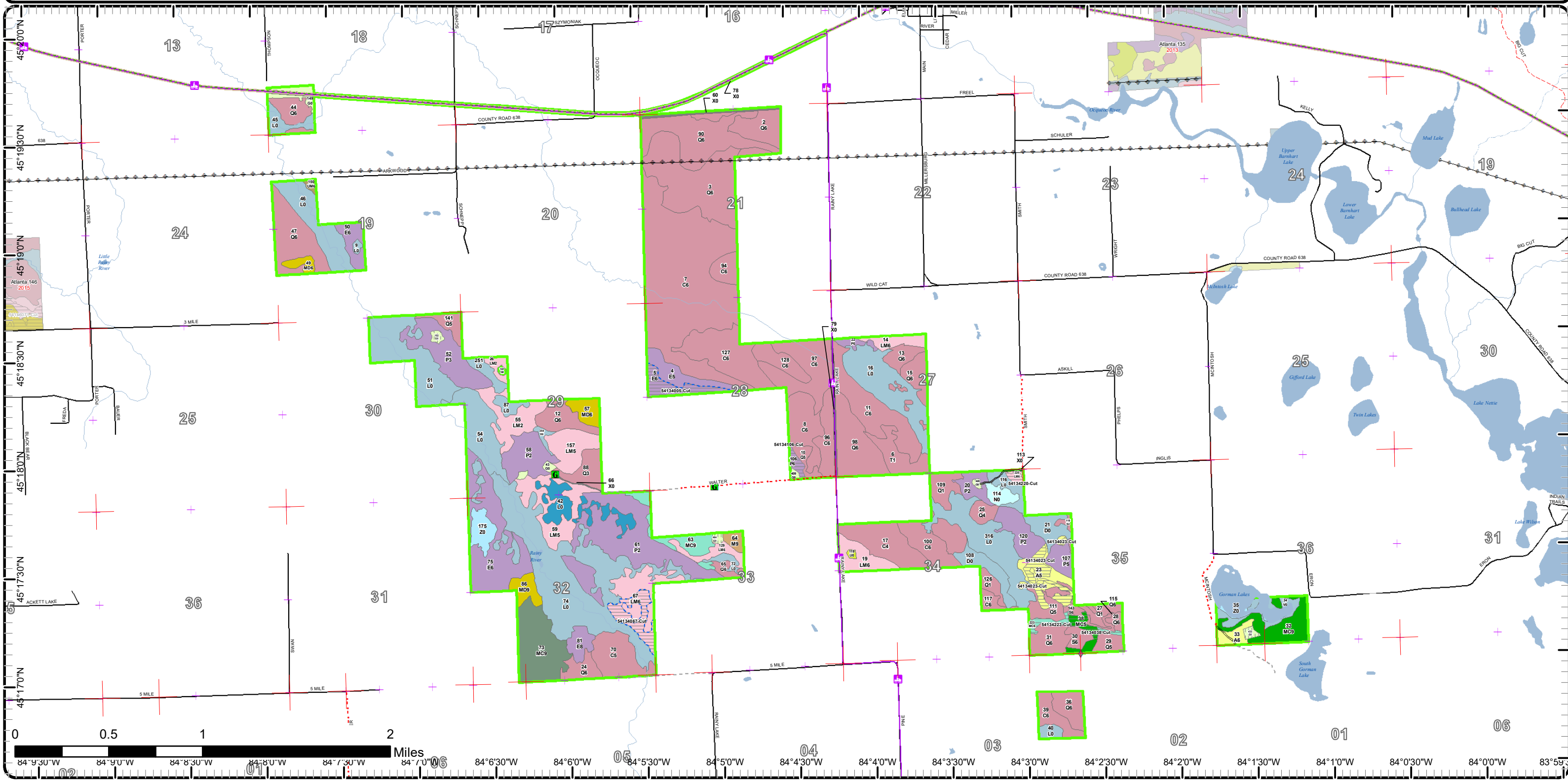
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 134
 T34N, R03E, Sec. 16-19, 21, 27-30, 32-36
 T33N, R03E, Sec. 3
 County: Presque Isle
 Unit: Atlanta
 Mgmt Area: Cheboygan Lake Plain
 YOE: 2020
 Acres: 2,655 GIS Calculated
 Examiner: Daniel Natzke
 Map Revised: 10/2/2018
 Map Phase: Post-Review

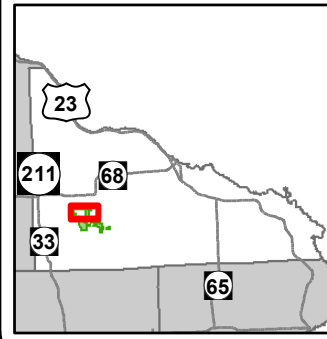


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Hiking Trails
- - - Designated Bicycle Trails
- Designated Snowmobile Trails
- Designated RailTrail
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
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- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 211 - Cropland
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes

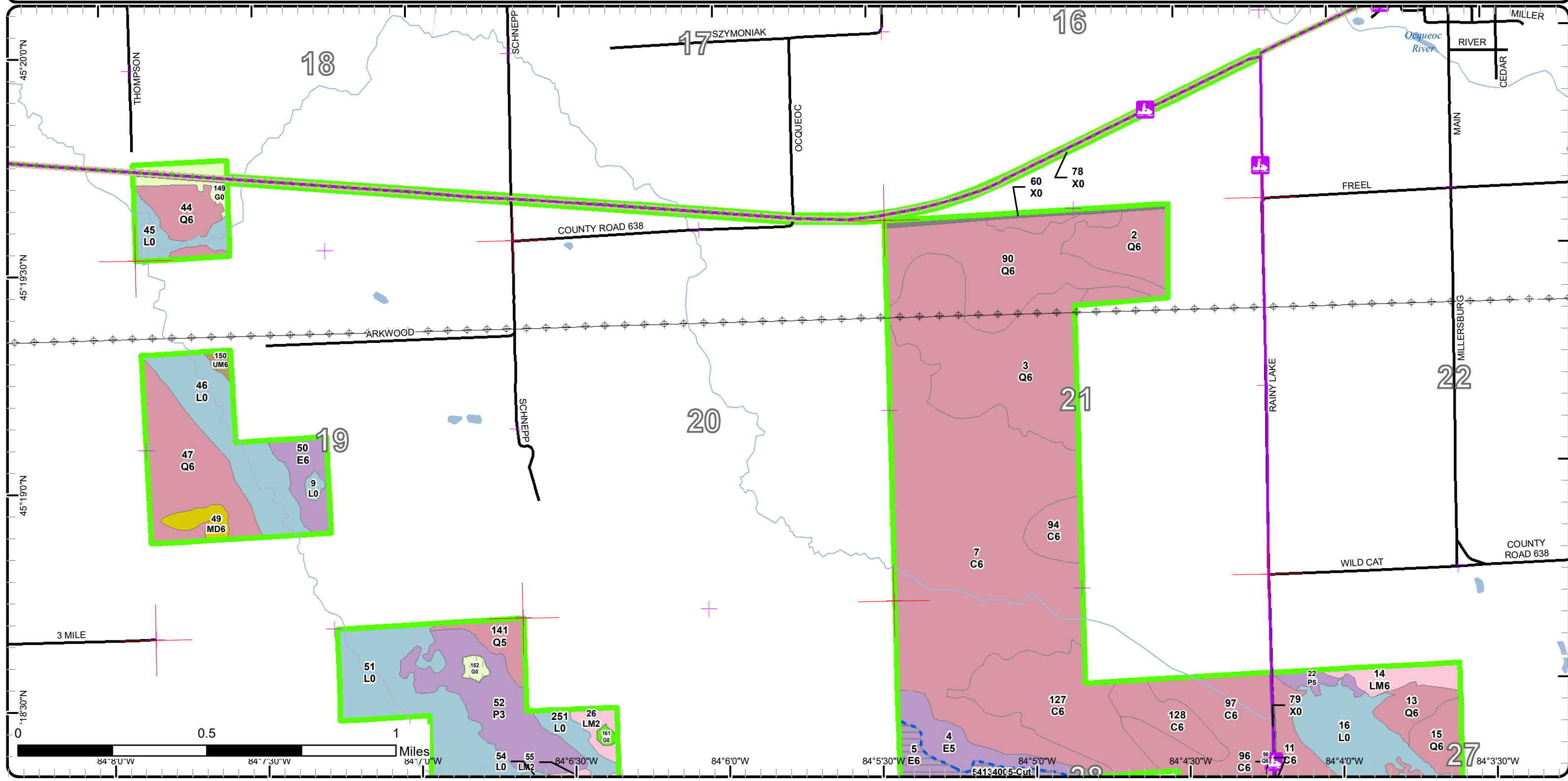


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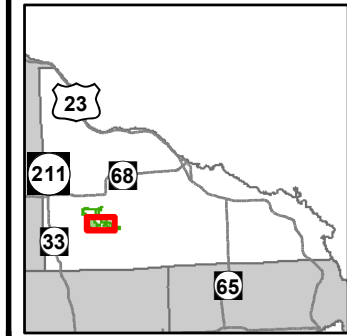


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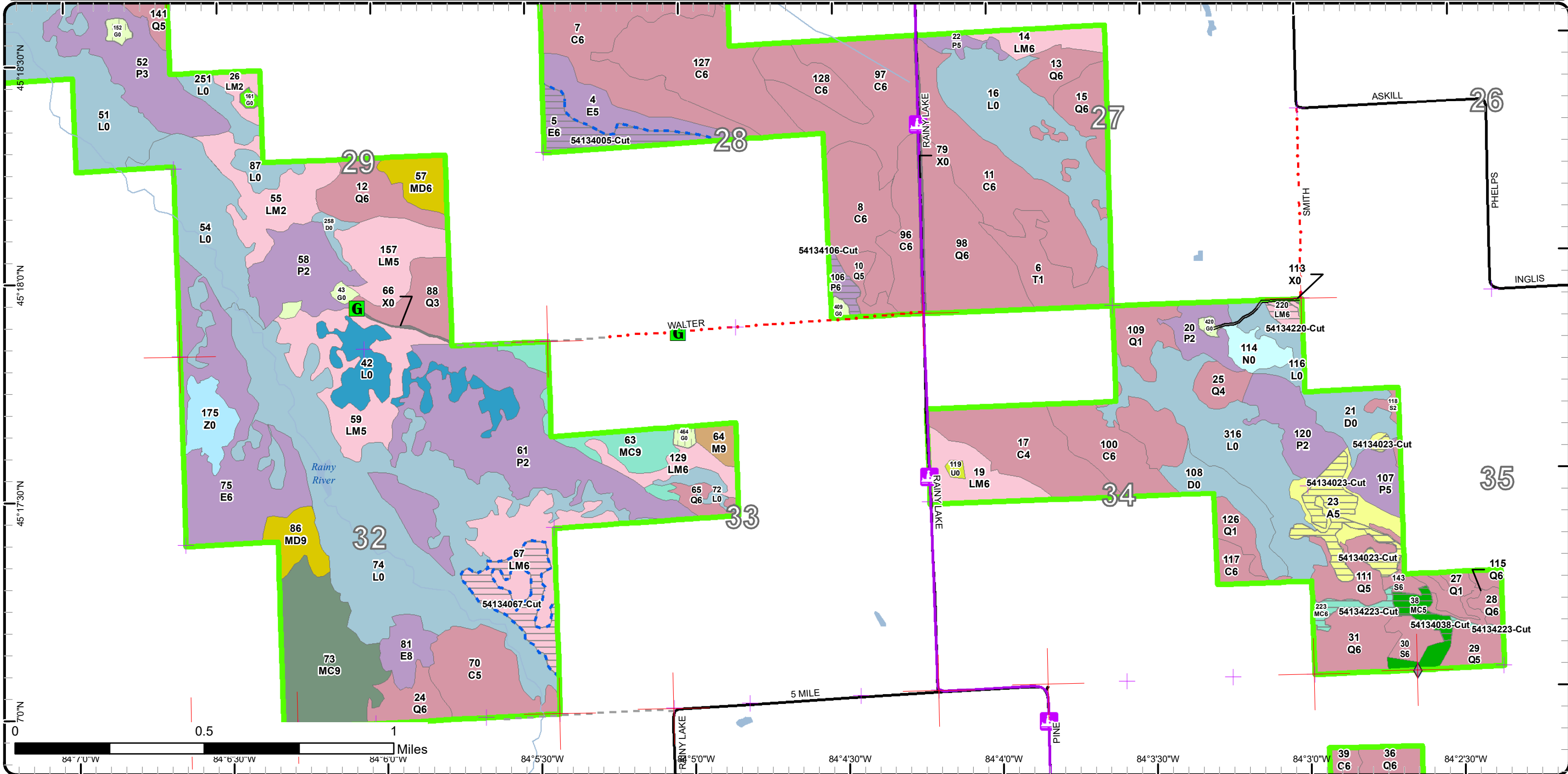


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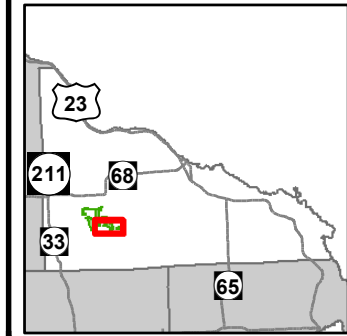


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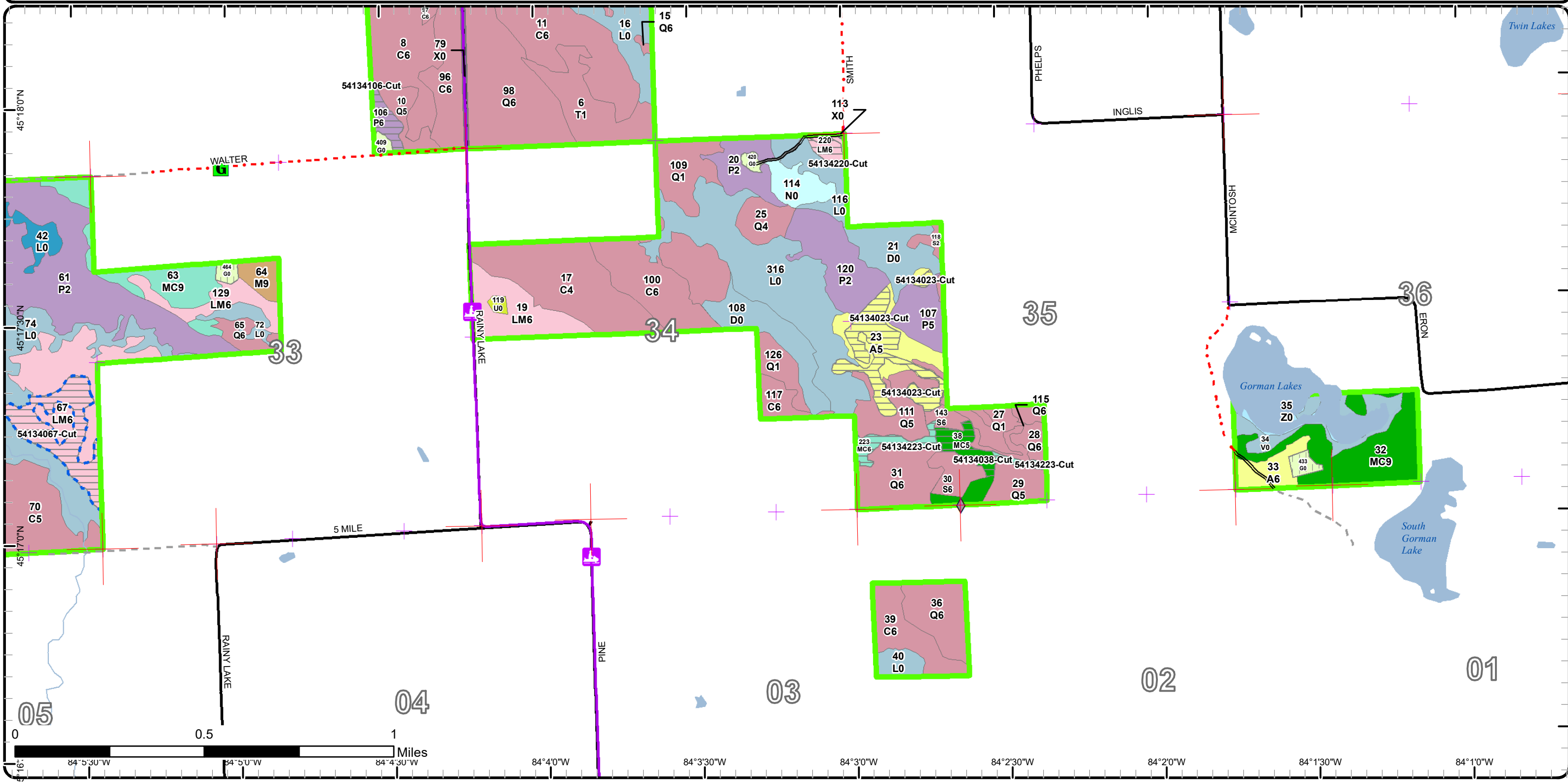


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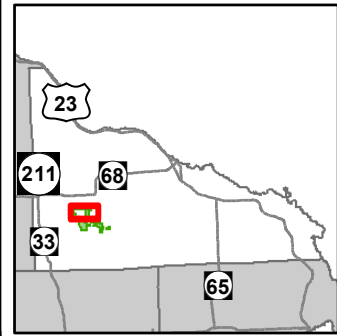


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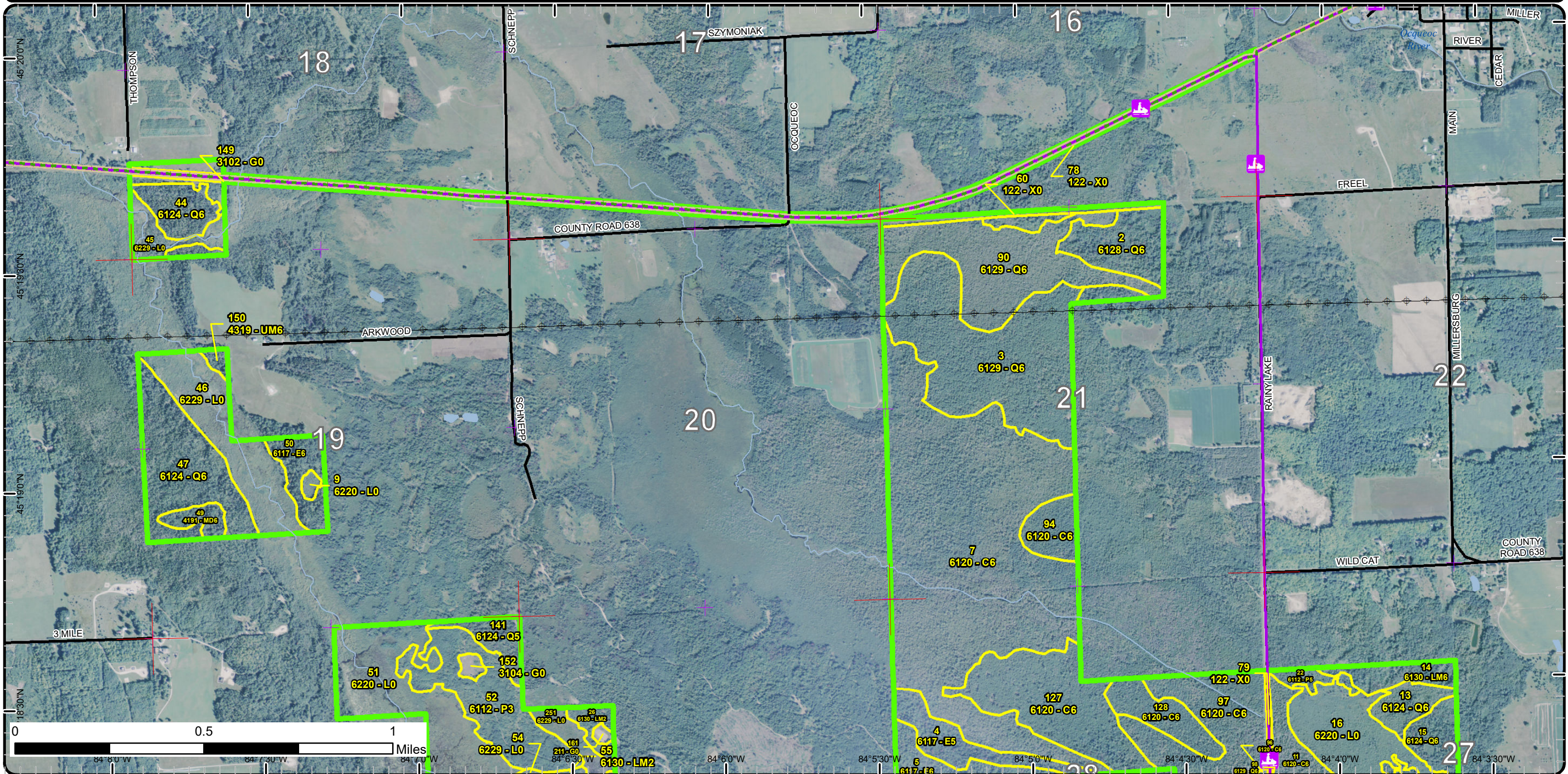


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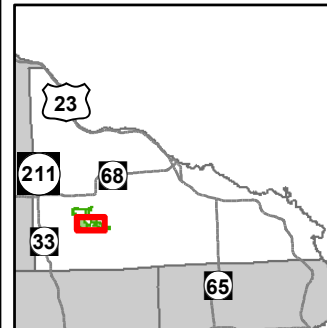


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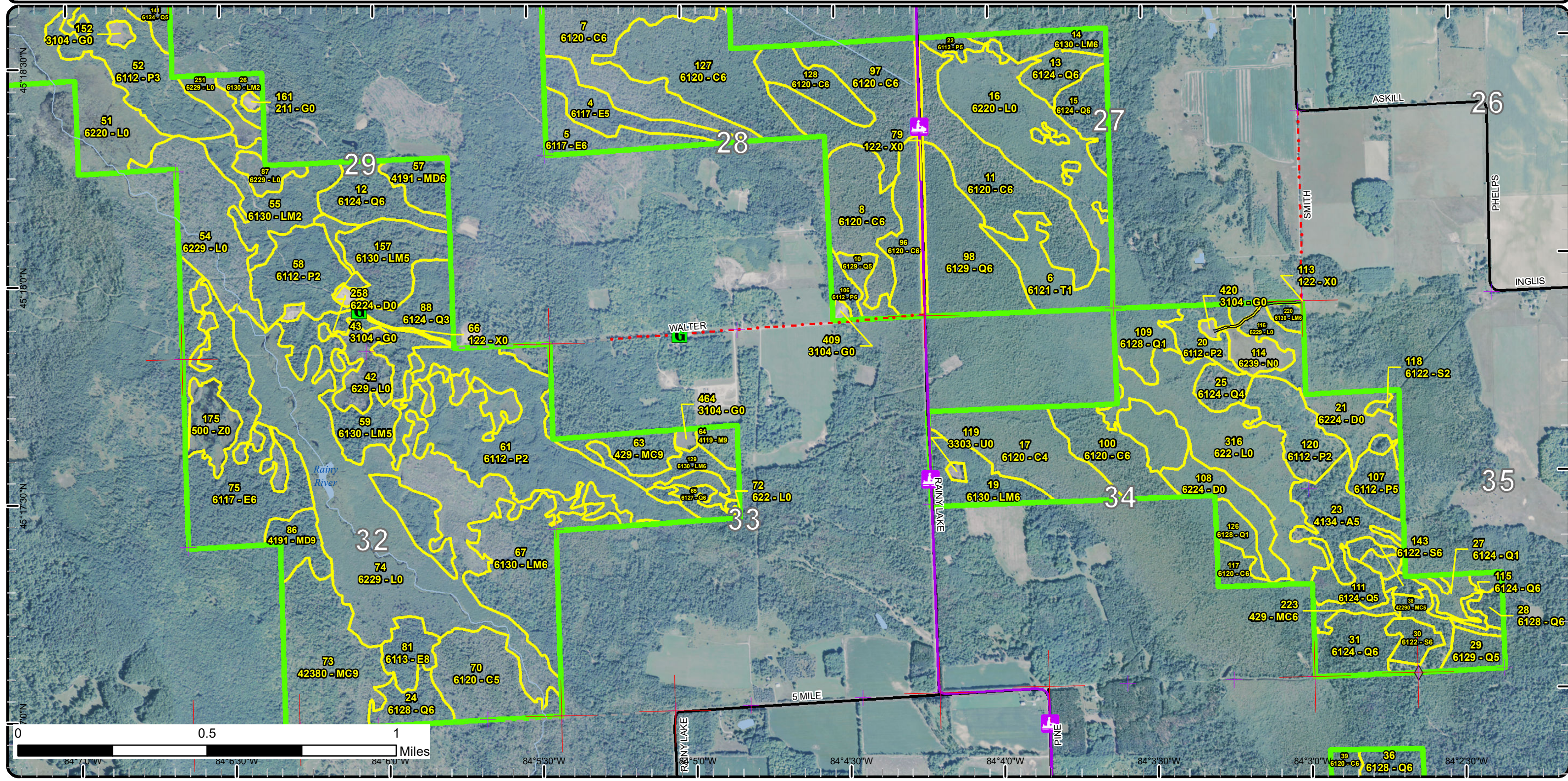


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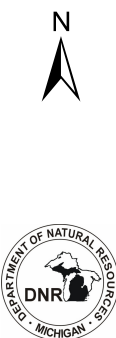
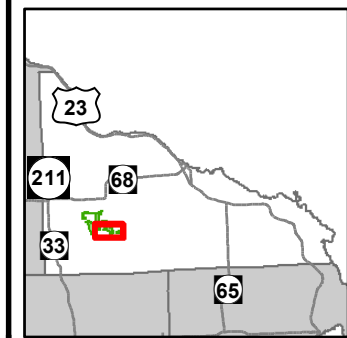


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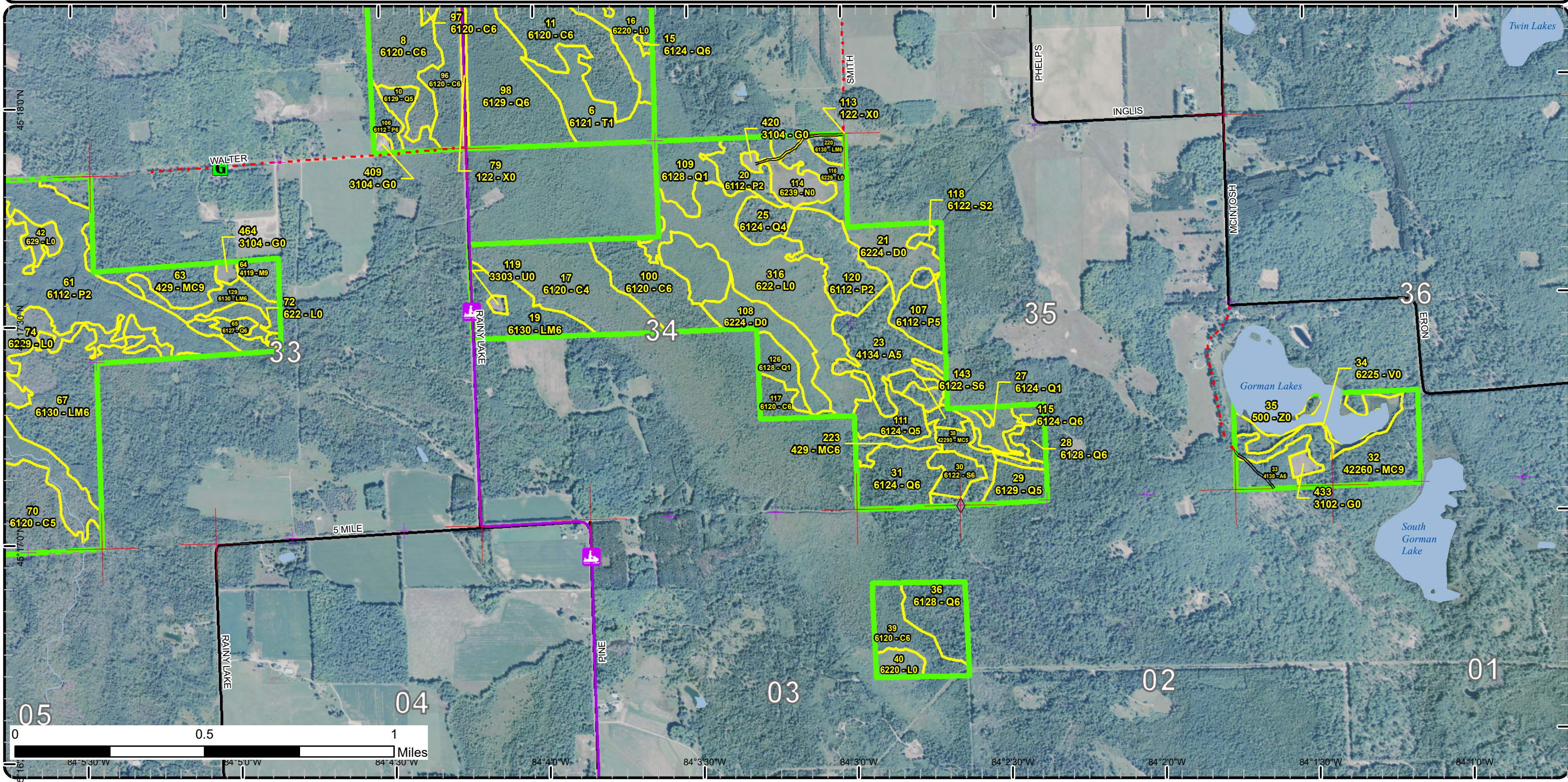


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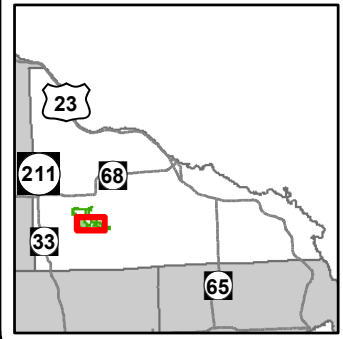
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Special Conservation Areas & Site Conditions Map

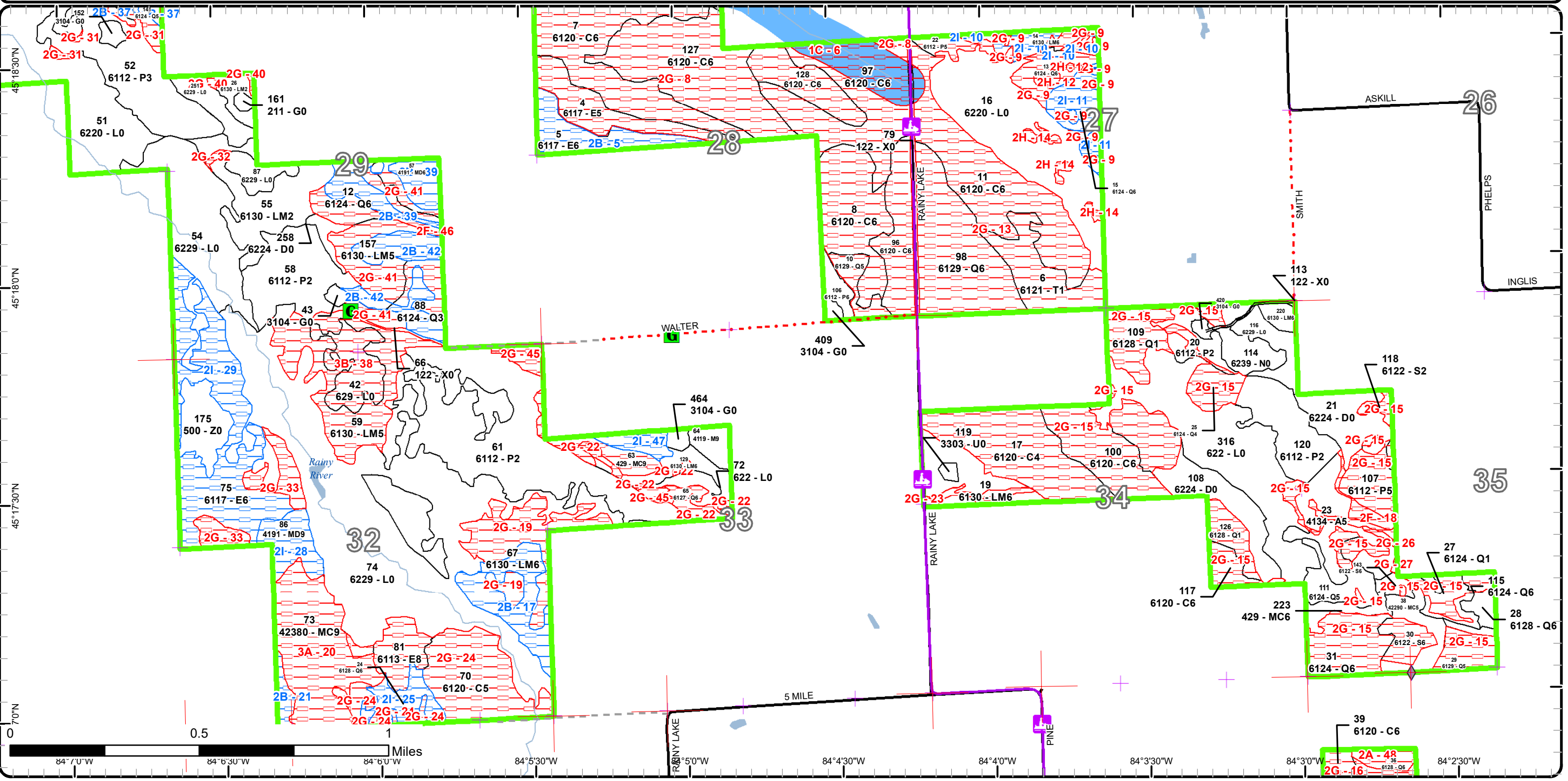


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

2I: Survey needed
1C: Other dept or div proc/practices
2A: Adjacent landowner denied access
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)
3A: Conservation Values incompatible with harvest at this time

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	0	0	0	9	0	0	0	0	32	0	0	0	0	0	0	0	0	41
Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Cedar	0	0	0	0	0	0	0	0	0	0	0	16	35	315	180	51	0	0	596
Cropland	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Low-Density Trees	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Lowland Aspen/Balsam Poplar	0	0	36	174	0	5	0	0	5	0	12	0	0	0	0	0	0	0	232
Lowland Conifers	0	0	0	0	0	26	17	104	73	57	20	57	4	17	65	0	97	0	537
Lowland Deciduous	0	0	0	0	0	0	0	0	15	33	89	0	0	0	0	0	0	0	136
Lowland Mixed Forest	0	0	0	31	56	59	4	12	39	0	0	0	0	0	0	0	0	0	201
Lowland Shrub	534	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	534
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	8	0	6	3	0	0	0	0	0	0	17
Marsh	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	6	0	25	0	0	0	0	0	0	0	31
Natural Mixed Pines	0	0	0	0	0	10	0	0	0	0	0	0	34	0	0	0	0	0	44
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Tamarack	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	23
Treed Bog	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Upland Conifers	0	0	0	0	0	0	0	0	7	0	0	22	56	0	0	0	0	0	85
Upland Mixed Forest	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Urban	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Water	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Total	703	0	36	205	65	100	44	116	155	122	152	104	129	332	245	51	97	0	2652



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 134

Total Compartment Acres: 2,655

Commercial Harvest - 41
 Harvests with Site Condition - 38
 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	20	0	0	0	0	0	0	0	0	20
Lowland Aspen/Balsam Poplar	5	0	0	0	0	0	0	0	0	5
Lowland Deciduous	17	0	0	0	0	0	0	0	0	17
Lowland Mixed Forest	24	0	0	0	0	0	0	0	0	24
Natural Mixed Pines	6	0	0	0	0	0	0	0	0	6
Upland Conifers	7	0	0	0	0	0	0	0	0	7
Total	79	0	0	0	0	0	0	0	0	79

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	79	0	0	0	0	0	0	9	0	88
Next Step	0	0	0	0	0	0	79	0	0	79
Total	79	0	0	0	0	0	79	9	0	167



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
5	54134005-Cut	17.4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	96	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition: Unknown Access

Prescription Clear cut without retention. Retain all red pine and green-marked trees. Protect advanced regeneration; do not use the 2" shearing requirement.

Specs: Access, if possible, will be using the private trail to the south. Harvest only under dry or frozen ground conditions. Consider a three-year contract. Survey work is likely. Include rabbit habitat specification.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of balsam fir, balsam poplar, aspen, red maple yielding at least a moderately stocked stand.

Regen:

Other The old aspen overstory is in severe decline.

Comment:

Proposed Start Date: 10/1 /2019

23	54134023-Cut	20.0	4134 - Aspen, Spruce/Fir	Poletimber Medium	80	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Clearcut with retention on the "island". Protect advanced regeneration; do not use the 2" shearing requirement. Wet areas may reduce total

Specs: harvest acreage. Harvest only under dry or frozen ground conditions. Access is problematic, either a long haul through private or a long haul over a freeze-down road. Consequently, consider a three year contract. Timber mats, corduroy and a survey will almost certainly be necessary. Include grouse log and rabbit habitat specifications.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of aspen, balsam poplar, red maple, white and black spruce, balsam fir and pine.

Regen:

Other If slightly more acreage is necessary to make this worthwhile, cast an eye toward the ridge-line stands of mixed lowland conifers just to the south and stand 28 (Q6).

Comment:

Proposed Start Date: 10/1 /2019

38	54134038-Cut	6.1	42290 - Natural Mixed Pine	Poletimber Medium	41	81-110	Harvest	Clearcut	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription CC. No retention due to small size. Select about 10 of the tallest white pine and white spruce to leave using an appropriate paint color.

Specs: Distribution may be clumpy. Leave all legacy trees (may count towards the retained 10 trees above). Combine with aspen sale to the north. Leave brush piles every 2 acres for "rabbitat".

Consider three year contact. Frozen winter and dry summer only! Access likely from the north. May require corduroy to cross the spruce stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of white pine, white spruce, balsam fir, black spruce, red maple, and aspen resulting in a medium to well stocked stand.

Regen:

Other Left the savanna-like southern four acres out because of its "uniqueness". Manage as own stand in the future.

Comment:

Proposed Start Date: 10/1 /2019



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
67	54134067-Cut	20.6	6130 - Fir, Aspen, Maple	Poletimber Well	36	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition: Unknown Access**

Prescription Clearcut with retention. Concentrate retention in riparian buffers along the Rainy River and in any wet areas that may hinder operations. Protect advanced regeneration; do not use the 2" shearing requirement. Access is problematic and will come through private trails or across extensive corduroy, timber matting or portable bridges. Harvest only under dry summer or frozen ground conditions. Consider a three year contract. Wet areas may reduce total harvested acreage. Retention may exceed 10% acreage if wet or sensitive areas warrant it. Survey likely. Protect survey monuments. Include grouse log and rabbit habitat specifications.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: Any combination of aspen, balsam poplar, white spruce, black spruce, white pine, red maple, paper birch yielding at least a medium stocked stand.

Other Comment: This treatment area represents the ridges included in stand 67. The old aspen and birch overstory is in decline.

Scott Trafelet called 8/21/18. Tentative permission. Needs to talk to uncles to be sure. Would like no harvest during bow and gun deer season.

Proposed Start Date: 4 /25/2018

106	54134106-Cut	4.9	6112 - Lowland Aspen	Poletimber Well	76	81-110	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut without retention. Retain a handful of larger spruce near the stand center. Protect advanced regeneration; do not use the 2" shearing requirement. Survey likely. Wet areas may reduce total harvest acreage. Harvest only under dry and frozen ground conditions. Consider a three year contract. Include rabbit habitat specifications.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: Any mixture of aspen, balsam poplar, red maple, paper birch, balsam fir, white spruce and black spruce leading to a medium stocked stand.

Other Comment:

Proposed Start Date: 10/1 /2019

152	54134152-NF	2.3	3104 - Degraded	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland			Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2019

161	54134161-NF	1.4	211 - Cropland	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland			Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2019



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
220	54134220-Cut	2.9	6130 - Fir, Aspen, Maple	Poletimber Well	54	81-110	Harvest	Clearcut	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut without retention. Protect advanced regeneration; do not use the 2" shearing requirement. Survey likely. Wet areas may reduce total
Specs: harvest acreage. Harvest only under dry and frozen ground conditions. Consider a three year contract. Include grouse log and rabbit habitat specifications.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of balsam poplar, aspen, black spruce, white spruce, red maple and balsam fir yielding at least a moderately well stocked stand.
Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

223	54134223-Cut	6.9	429 - Mixed Upland Conifers	Poletimber Well	79	81-110	Harvest	Clearcut	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription CC. No retention due to small size. Select about 10 of the tallest white pine, black spruce, and white spruce to leave using an appropriate paint
Specs: color. Distribution may be clumpy. Leave all legacy trees (may count towards the retained 10 trees above). Combine with aspen sale to the north. Leave brush piles every 2 acres for "rabbitat".

Consider three year contact. Frozen winter and dry summer only! Access likely from the north. May require corduroy to cross the spruce stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any combination of white pine, white spruce, balsam fir, black spruce, red maple, and aspen resulting in a medium to well stocked stand..
Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

420	54134420-NF	1.3	3104 - Degraded	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture
Specs: practices

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

433	54134433-NF	2.4	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture
Specs: practices

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019



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
464	54134464-NF	1.9	3104 - Degraded	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment
Acreage Proposed: 88.1**

Report 4 – Site Conditions

Atlanta Mgt. Unit
Daniel Natzke : Examiner

Compartment: 134
Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions										
		With Condition				2B	2I	1C	2A	2F	2G	2H	3A	3B	3J	
41	31	0		10	Aspen					4	6					
13	13	0		0	Bog											
596	0	0		596	Cedar			60			537					
1	1	0		0	Cropland											
21	19	0		1	Herbaceous Openland						0					1
1	1	0		0	Low-Density Trees											
232	209	0		23	Lowland Aspen/Balsam Poplar			0			23					
536	20	64		452	Lowland Conifers	40	25	0	5	1	431	5				10
137	0	89		48	Lowland Deciduous	30	59				48					
200	64	42		94	Lowland Mixed Forest	34	9	0			56				38	
534	445	0		89	Lowland Shrub			60			0				17	12
17	3	0		14	Lowland Spruce/Fir						14					
9	9	0		0	Marsh											
32	0	28		3	Mixed Upland Deciduous	15	13				3					
44	10	0		34	Natural Mixed Pines						9			24		
6	6	0		0	Northern Hardwood											
23	0	0		23	Tamarack			0			23					
39	39	0		0	Treed Bog											
85	7	10		68	Upland Conifers	4	6				21			46		
2	0	2		0	Upland Mixed Forest	2					0					
53	45	0		8	Urban			1			7					
33	33	0		0	Water											
2,655	954	236		1,464	Total Forested Acres	125	112	121	5	5	1,180	5	71	55	23	
	36%	9%		55%	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	Available	2B: Unknown if access through adjacent landowner(s) is possible	39	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	230	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand represents the only example of natural upland mixed pine in the entire compartment. Out of consideration for its uniqueness in the compartment, water quality concerns around the Gorman Lakes, and for its scenic and recreational values, it is agreed that harvest is incompatible with the conservation goals of this stand.							
5	Available	2B: Unknown if access through adjacent landowner(s) is possible	17	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	1C: Other dept or div proc/practices	60	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments: Cold water Stream.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Cold water Stream.							

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8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	356	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	2I: Survey needed	9	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2I: Survey needed	14	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							

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13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	128	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	197	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	2B: Unknown if access through adjacent landowner(s) is possible	22	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
Dry ridges look operable at some point in the future. If deemed harvestable, corners will need to be found or surveyed.							

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18	Unavailable	2F: Too steep	4	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Slopes of 25-30% lead down to a swamp making it difficult to operate without damaging soils. A narrow ridge with lowland on either side was also included in this condition.							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3A: Conservation Values incompatible with harvest at this time	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Hemlock is widespread throughout most of the stand, usually in combination with cedar.							
21	Available	2B: Unknown if access through adjacent landowner(s) is possible	4	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: Upland deciduous inclusion with very poor access. Stocking becoming poorer as ash and aspen fall out of the stand.							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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23	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Available	2I: Survey needed	11	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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28	Available	2I: Survey needed	13	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
29	Available	2I: Survey needed	59	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
37	Available	2B: Unknown if access through adjacent landowner(s) is possible	5	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
38	Unavailable	3B: Threatened, endangered, and special concern species	55	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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39	Available	2B: Unknown if access through adjacent landowner(s) is possible	18	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Available	2B: Unknown if access through adjacent landowner(s) is possible	19	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
44	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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45	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	2I: Survey needed	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments:							
46	Unavailable	2F: Too steep	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Significant slope ends in a wetland stand.							
47	Available	2I: Survey needed	6	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
48	Unavailable	2A: Adjacent landowner denied access	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This site condition includes drainages and hummocky/sphagnumy lowland natural pine that are included in the stand. Generally these were placed outside of the previous harvest units.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	32.1	81	81-110	Old quaking aspen, roughly 90 years old, is currently dying out; swales of dead ash. Extremely wet in areas. White spruce shows good growth 80-40 years ago and again about 25 years ago. Often seems more of a sapling stand with a decadent overstory. Mixed lowland shrub inclusions. OPIC - FMD: IRREGULAR TYPE.ASPEN RIDGE W/ALDER POCKETS-INC. 3-4 ACRES OF Q6, MATURE ASPEN, BUT LOTS OF SMALL CONIFERS. access problematic. Only 3-4 acres is workable for sale area.
3	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	97.1	150	81-110	Black spruce as a supercanopy species on the periphery. Tamarack increases to center but many saplings. Short 1-2 stick cedar seem to make up most of the canopy. Aspen are dying out. Black ash mostly dead. Patches of dense alder especially to the west. Extremely wet. Origin and stand history probably the same as the stand to the north. A very small upland containing most of the stand's aspen is located in the east. OPIC - FMD: possible access from farm fields to the west if management is desired. Good thermal cover.
4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	20.2	89	1-50	A drainage between cedar and lowland poplar/lowland hardwood stand to the south. Balsam poplar is dying out. Some areas of very dense alder. Stand is succeeding to younger fir and maple. Too wet for reasonable harvest currently. OPIC - FMD: wet. used by deer mostly and some hare. probably beaver impacted seems like water level is higher that what the vegetation is accustomed to.
5	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	17.4	96	81-110	Blue paint, t-posts and blue flag on private side of southern boundary. No indications on the western boundary. Possibly surveyed. Quaking aspen is dying out along with paper birch. Trace large saw red pine in the SW corner. Dense fir understory succeeding the aspen. OPIC - FMD: sandy ridge slightly above water line. deer hare and grouse use. 2 mile haul across private to county road.
6	6121 - Tamarack	Sapling Poor	23.3	51	Unspecified	Very poor, very wet stand that is mainly non-productive. It is predominantly alder with just enough tree cover to make it forested. Cedar and black spruce are found more along the periphery; tamarack is common throughout but increasingly dominant toward the center.
7	6120 - Lowland Cedar	Poletimber Well	228.2	122	111-140	Many runty, old and short cedar. At their best 1-2 sticks with a few rare examples of up to 4 sticks on knolls. Most of the canopy is cedar but a few supercanopy black spruce, tamarack and white pine punctuate the stand. Throughout this block of stands tamarack are dying out. They exhibit fungus, bird peck, stripped bark, and blown out tops. Numerous small blow down patches. Too wet. OPIC - FMD: BETTER QUALITY IN WESTERN PART. in good shape.
8	6120 - Lowland Cedar	Poletimber Well	33.2	123	111-140	120-150 yo cedar 2-4 sticks. Cedar windthrow throughout. Cedar age roughly that of previous inventory; keeping old numbers for dominant age. Wetter north. Mucky rocky soil. Probably sphagnum over muck. Short trees. OPIC - FMD: N PART IS SOMEWHAT WETTER.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
10	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	6.9	70	1-50	Dead ash make up most of a former canopy which is succeeding mainly to fir. A few taller spruce and pine eking out an existence on small knolls punctuate the stand. Poor, wet site, basically a swale or drainage.
11	6120 - Lowland Cedar	Poletimber Well	53.4	124	81-110	Near the headwaters of one of the branches of the Rainy River which is channelized essentially on the East side of the Rainy Lake Road. Tamarack and dead black ash increase to the center.
12	6124 - Lowland Spruce- Fir	Poletimber Well	21.4	66	Unspecified	
13	6124 - Lowland Spruce- Fir	Poletimber Well	11.4	67	51-80	Higher, productive and relative dense knolls containing older age class and saplings surrounded by alder and lowland saplings. Brush and lowland saplings dominate the stand. Evidence of old skid trails. OPIC - FMD: APPARENTLY CUT as part of OLD TRESPASS.
14	6130 - Fir, Aspen, Maple	Poletimber Well	12.3	65	81-110	Operable upland knolls separated with lowland. The uplands contain large fire scarred pine stumps, sometimes up to about 3-4 ft diameter. Evidence of old skid paths and landings.
15	6124 - Lowland Spruce- Fir	Poletimber Well	18.6	66	81-110	Lowland/upland honeycomb. Upland-ish islands surrounded by lowland brush contain spruce, fir and some hardwoods seem most similar to this stand so they were lumped in. These would make good future retention. OPIC - FMD: WAS CUT BY TRESPASS, SMALL PATCH OF BALSAM WAS LEFT IN WEST SIDE
17	6120 - Lowland Cedar	Poletimber Poor	41.8	136	51-80	Old black ash canopy dead leaving low stocked cedar, fir over alder and water. Too wet and non productive. 130 year old NWC slow growth but for 1920's--1970's. Best walking can sometimes be had on the ice road. OPIC - FMD: SOME DEER USE, OLD ICE ROAD
19	6130 - Fir, Aspen, Maple	Poletimber Well	21.2	49	111-140	Dense fir. Seems some red maple, white spruce, white pine left from previous stand. Very heavy browse to red maple. Becomes wetter to east as n. white cedar and balsam poplar mix in. Couple of E-W drainages. OPIC - FMD: A TRASH DUMP AREA--ADJACENT TO OLD PAD.
20	6112 - Lowland Aspen	Sapling Medium	12.5	14	Immature	Once off the ridge, much alder mixes in. Balsam poplar in the north. Big tooth confined to ridge. OPIC - FMD: SAME AS STD TO SOUTH BUT MORE BIRCH, Cut 2003, sale 027-00.
22	6112 - Lowland Aspen	Poletimber Medium	5.1	48	Unspecified	Mostly super wet but becoming higher toward the north and east. Quaking aspen and fir grade into the stand in the north and east. Otherwise mostly balsam poplar and alder.
23	4134 - Aspen, Spruce/Fir	Poletimber Medium	31.6	80	51-80	Aspen decadent & dying. Advanced regeneration: red maple, balsam fir, and small amount w/black spruce. OPIC - FMD: LESS BIRCH, VARIABLE STD, SOME BIG TOOTH, SMALL DBH. Several very narrow DRY SANDY RIDGES, but otherwise a true P-stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	13.4	80	81-110	
25	6124 - Lowland Spruce- Fir	Poletimber Poor	8.7	51	1-50	Mostly blown-over cedar. Leave for rabbits and other wildlife. Alder, blown-over cedar, fir, balm of Gilead in center. Too wet. Mainly fir and spruce cling to margins. OPIC - FMD: OI Stand Year Origin was 1909
26	6130 - Fir, Aspen, Maple	Sapling Medium	6.0	36	1-50	Lots of fir pushes this to lowland mixed instead of lowland aspen. Aspen cut 1994. Some dryer aspen ridges fringed with lowland conifers. Farther in, more fir and lowland brush. OPIC - FMD: OI Stand Year Origin was 1994
27	6124 - Lowland Spruce- Fir	Sapling Poor	7.9	58	1-50	Non-productive treed bog! OPIC - FMD: OI Stand Year Origin was 1965
28	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.0	113	111-140	The stand is in the process of regenerating on its own. Red maple saplings in gaps. Cedar is concentrated in north and east under supercanopy red and white pine. OPIC - FMD: MUCH HAS BLOWN DOWN. WAIT FOR REGEN TO GROW BACK
29	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	9.2	102	111-140	In the southwest, the stand grades into stagnant cedar, alder and tamerack. The stand seems decent, if with small trees, and pretty dense with cedar in about 50% of the stand. West is non-productive. East is somewhat productive but too wet. OPIC - FMD: POOR QUALITY CEDAR, WILL PROB. NEVER BE MERCH., N. EDGE IS BEST, HARE AND DEER USE
30	6122 - Black Spruce	Poletimber Well	7.5	72	81-110	Pine located on the perimeter where site quality is the best. Wetter in the center. Red maple shows very heavy browse. OPIC - FMD: Mostly wet.
31	6124 - Lowland Spruce- Fir	Poletimber Well	20.1	95	1-50	Road/beaver dam is walkable in winter 2018. Random line? runs N-S on the West boundary; seems maintained for hunting access. Mostly a non-productive swamp with, say, 30 BA. In the rare higher spots, black spruce BA might be 100. Harvestable area seems negligible. OPIC - FMD: DEER AND HARE USE. Old two-track in is now flooded.
32	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	33.6	113	111-140	White pine 27 at stump, 31 at DBH, 47 at DBH, 93 at DBH. Sapling sized white pine relatively abundant on this hilly site. There are even a few rare red pine saplings. Peninsula across lake inaccessible except through pvt contains more oak and jack pine than most other places in the stand. Oldest trees show rapid growth to the 1940s, gradually slowing in the 1960s. Growth has been slow since. Second cohort is 78 at DBH, or about 86 from seed. Stand may have been overstocked in the 1970s as rings were very compact and show better growth on either side. Huckleberry? OPIC - FMD: SCENIC AREA Thinned 2003, sale 028-00



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	4130 - Aspen	Poletimber Well	9.2	36	81-110	Stand is just becoming merchantable. Single wire fence and t posts lead approximately to southwest corner. Stand grades into maple saplings toward the west. Retention of single tree pine seems to increase toward the west. Records exist for most corners of this 80-acre parcel. Big tooth exhibiting good growth. There probably were more oak and pine in this stand 36 years ago judging by neighboring stands on state and private land. OPIC - FMD: TRASH DUMPING
36	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	17.6	78	81-110	White pine on uplands. Contains legacy white pine (30"+) and red pine in the south. Areas of extremely dense fir saplings. Nice black spruce, fir and white pine in a narrow band on the north. Wet swales could potentially merge with the cedar stand to the west. OPIC - FMD: HIGHLY VARIABLE TYPE AND TERRAIN, MOST ASPEN IS BEYOND HELP, HOLD TO ALLOW CONIFERS TO TAKE OVER SITE
38	42290 - Natural Mixed Pine	Poletimber Medium	10.2	41	81-110	Some possible legacy white pine trees. Treed bog/black spruce inclusion in the north. Trails suggest hunt use. Southern four acres made an inclusion in this stand. This inclusion has an open almost savanna-like or barrens-like character. It's either been maintained for hunting access/use or was probably baked by fire in 30s. North end jack pine almost looks planted.
39	6120 - Lowland Cedar	Poletimber Well	16.2	108	111-140	Dense cedar in the southeast. Cedar becomes poorer toward the center. Fir and black spruce on the periphery. Extremely wet. OPIC - FMD: DEER AND HARE USE
44	6124 - Lowland Spruce- Fir	Poletimber Well	17.4	123	51-80	Cedar pockets become more common southward. Stringers of alder & swamp hardwood throughout. Many windthrown individuals and clumps. Fir, maple, black ash commoner toward river. Spruce more common interior and to north. Mucky soil. Stand at confluence of Rainy River. Portion south of Rainy River was edge called due to lack of access. OPIC - FMD: Q5, CEDAR SCATT THROUGHOUT. ASPEN HAS FALLEN OVER. BEAVER IMPACTED. VERY WET.
47	6124 - Lowland Spruce- Fir	Poletimber Well	47.5	74	81-110	SW: patches of dense fir taking over in open patches. Stumps seem to indicate select cutting. Dense fir saplings throughout. Many blowdown patches. This stand seems to be regenerating to fir. OPIC - FMD: P4Q3 VERY Wet.
49	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	6.4	79	81-110	Considerable amounts of blowdown in the south. Quaking aspen and balsam fir down. The fir still is holding brown needles. The event likely occurred about 2 years ago. OPIC - FMD: OI Stand Year Origin was 1930
50	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	14.8	79	81-110	OPIC - FMD: MOSTLY DEAD OR BLOWN DOWMAKES A GOOD HUNTING GROUND FOR BOBCAT AND RELATIVES.
52	6112 - Lowland Aspen	Sapling Well	44.0	26	Immature	Beaver damage near lowlands. Stocking is patchy and poor on margins which feature nannyberry, fir, black spruce and occasionally swamp hardwoods. Stocking seems reasonably good outside of these fringes. Center tends to be a dry ridge. Significant fir, marsh and lowland brush inclusions. OPIC - FMD: CUT IN 1992, NOT REGENERATING REAL WELL, PRETTY WET. LITTLE W/L USE IN WINTER. SHOULD HAVE LEFT CLUMPS AND DEAD WOOD



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	6130 - Fir, Aspen, Maple	Sapling Medium	30.7	24	1-50	A few dryer aspen ridges fringed with lowland conifers. The center features more fir and lowland brush. OPIC - FMD: OI Stand Year Origin was 1994
57	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.5	96	81-110	Feels like three stands in one. Red maple/fir drainage, birch/red maple/fir southwest slope and a northeast slope that trends toward upland hardwood with a few sugar maple and some dead ash. The aspen has died out of the canopy largely. OPIC - FMD: HOLD FOR AGE CLASS DIST. BUFFER N OF ST 52 INCLUDED, WHEN CUT LEAVE CLUMPS AND DEAD WOOD--RABBITAT SPECS TO AVOID PROBLEMS ASSOCIATED WITH CUTTING IN 52.
58	6112 - Lowland Aspen	Sapling Medium	31.0	24	Immature	Pools and stringers of alder. Other than that, a pretty decent lowland aspen stand. OPIC - FMD: OI Stand Year Origin was 1994
59	6130 - Fir, Aspen, Maple	Poletimber Medium	37.7	47	81-110	Beaver floodings affecting this stand. Ostensibly stand was larger with swamp hardwood and cedar inclusions, now mostly dead and inundated. OPIC - FMD: OI Stand Year Origin was
61	6112 - Lowland Aspen	Sapling Medium	99.4	26	Immature	Stand looks reasonably good in 2018. OPIC - FMD: CUT IN 1992. LOOKS PRETTY BARREN. NOT MUCH wildlife USE.
63	429 - Mixed Upland Conifers	Sawtimber Well	21.6	102	111-140	Small clumps of hemlock scattered throughout. OPIC - FMD: WHITE PINE POLE FOR THE MOST PART, BUT NE HAS MORE ASPEN. ILLEGAL TRIAL AND BLINDS
64	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.0	103	81-110	BA 110. Maple shows heavy browse. Desirable advanced regeneration is rare. OPIC - FMD: MARGINAL, VERY LITTLE HDWD IN THE AREA. GOOD SITE BAD TREES. MORE ASPEN TO SOUTH AND SOUTHWEST. DEER TRAVEL ZONE BETWEEN SWAMP AND HILL.
65	6127 - Lowland Pine	Poletimber Well	5.5	88	81-110	
67	6130 - Fir, Aspen, Maple	Poletimber Well	49.5	36	81-110	Most of the stand is probably too wet to harvest: hummocky sphagnum. Formerly considerable black ash component is dead. The best hope is for balsam poplar saplings and seedlings to fill in other wise it will be brush. Between alder/swamp conifer/swamp hardwood swales there are operable ridges. At the stump, red maple saplings are about 33 years old. Fir saplings and seedlings started a little earlier. The stand likely started to open up about 30-40 years ago as the older deciduous canopy, most probably aspen, began to break up. About 3 acres in the far south include a nice, mostly upland, stand of fairly dense (say 120 BA) big tooth, quaking aspen, red maple and balsam fir about 55 years old. OPIC - FMD: LEAVE FOR COVER next to TAG ALDER SWAMP
70	6120 - Lowland Cedar	Poletimber Medium	35.0	113	111-140	OPIC - FMD: BIGGER ON W SIDE BUT BETTER QUALITY ON EAST. NO PLANS TO HARVEST UNLESS DEER CAN BE KEPT OUT FOR 30 YEARS.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
73	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	56.3	110	111-140	Lump upland deciduous with hemlock (MC 9). MD7, now somewhat poorly stocked without ash. Quaking aspen will be next to fall out. Hemlock and cedar fingers interdigitate stand. Under story is heavy fir saplings and ash saplings. Very rare hemlock saplings in trace numbers. Otherwise deer seem to use hemlock stringers as movement corridor between high and low ground. Hemlock component is impressive. Inclusions of upland and lowland hardwood and (formerly) ash swamp. OPIC - FMD: H5E5C4, UNUSUAL/UNIQUE STD, STRIP OF E5L ON E EDGE, 5 ACRES OF M6 IN SW COR, ACCESS FROM PVT.
75	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	72.4	98	111-140	Stand broken up by ponds, each supporting an active beaver lodge. Former 90 year old overstory of birch, quaking aspen, and old fir releasing pockets of fir and red maple saplings and poles. Cool stand aesthetically, for wildlife and ecology ... lots of coarse woody debris. Many ponds and pools especially to south. Aspen hangs on in canopy in south more. Pit and mound topography on ridges in north. OPIC - FMD: FAIR TO GOOD COND, HEAVY BALSAM UNDERSTORY IN MANY AREAS. Wet seam up center of south half.
81	6113 - Lowland Maple	Sawtimber Medium	12.3	89	51-80	Black ash dead but significant amount of red maple left.
86	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	12.7	95	81-110	Split out of the lowland aspen/fir stand to the NW. The stand features middling quality hardwoods, mostly red maple and a few sugar maple on the higher spots. A few rare hemlock are present.
88	6124 - Lowland Spruce-Fir	Sapling Well	18.2	41	1-50	Mainly lower fir swales with some ridges supporting aspen and hardwood mixed with fir and a few spruce. Perhaps when the older maple overstory dies in the stand to the north, this stand could be managed with that one.
90	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	65.3	135	81-110	Wet, mossy hummocks characterize the forest floor. Many deer trails; a likely yarding area. Older cedar around 130 years old, a second cohort about 80-100 along with fir and black spruce. Strong release around 80 years ago; roughly stagnate for the last 20 years. Short heights relative to age suggest a poorer site. Stringers of black spruce and tamarack especially to the SE. Too wet. OPIC - FMD: possible access from farm fields to the west if management is desired. Good thermal cover.
94	6120 - Lowland Cedar	Poletimber Well	13.0	133	171-200	A few rare pockets of cedar regen. Cedar are relatively large for this compartment at 2-4 sticks. Black spruce are a little taller. The site must be a little better than the surroundings and is probably better drained. Even so, this stand is likely too wet. Relatively open understory makes for easy walking. A possible raptor nest nearby. OPIC - FMD: BETTER QUALITY IN WESTERN PART. in good shape.
96	6120 - Lowland Cedar	Poletimber Well	20.9	132	171-200	Dense with a good bit of individual trees blown down throughout. As in most places so far, the tamarack is dead or dying. It is denser than the stand to the west and more productive but still too wet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
97	6120 - Lowland Cedar	Poletimber Well	50.5	142	81-110	Wet & mucky. This stand just like one to south but tamarack present. Tamarack is falling out of stand. Wider range of diameters; probably site quality differences or higher water table. Occasional supercanopy white pine punctuate the stand. OPIC - FMD: N PART IS SOMEWHAT WETTER.
98	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	47.7	108	81-110	Generally runty 1 stick trees. Tamarack can achieve maybe 3 sticks but with considerable taper. Poor, wet site. Stand is increasingly wet to the east. A narrow strip adjacent to Rainy Lake Road may be better drained as a result of the ditch and exhibits a bit better quality.
100	6120 - Lowland Cedar	Poletimber Well	25.0	130	51-80	Slightly less miserable than stand to west. Greater densities, heights. Seems to lack as much dead ash. Generally runty cedar. Best walking is in the stringer of large trees heading east-west at least when frozen. Probably same origin as stand to west, about 120--130years ago. OPIC - FMD: SOME DEER USE, OLD ICE ROAD
106	6112 - Lowland Aspen	Poletimber Well	4.9	76	81-110	Aspen with conk. Larger supercanopy spruce, about 90-100 years old. Thick fir understory. OPIC - FMD: N PART IS SOMEWHAT WETTER.
107	6112 - Lowland Aspen	Poletimber Medium	12.2	95	51-80	Open & wet . Probably too wet and best left for wildlife, browse. Age estimated due to broken corer. OPIC - FMD: BEAVER FLOODING OF RECENT ORIGIN.
109	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	29.8	61	1-50	Barely forested. Spruce, tamarack fir invading alder brush. Extremely wet. Similar to state land immediately to NW. OPIC - FMD: SOME LARCH, SPRUCE & SCATT ASPEN.
111	6124 - Lowland Spruce- Fir	Poletimber Medium	12.1	68	51-80	Lowland-upland honeycomb. Sing along "Honeycoooooomb". Many alder pockets. There are a few slightly higher areas with good productivity but otherwise this stand is poor-marginal. Goodly clutch of maple saplings in the west. OPIC - FMD: LESS BIRCH, VARIABLE STD, SOME BIG TOOTH, SMALL DBH. Several very narrow DRY SANDY RIDGES, but otherwise a true P-stand.
115	6124 - Lowland Spruce- Fir	Poletimber Well	6.0	83	111-140	A transitional stand between higher ground and a non-productive wetland. Cedar is probably about 80-120 years old based on similar trees in the area. This stand includes a few areas that are non-productive. OPIC - FMD: OI Stand Year Origin was 1965
117	6120 - Lowland Cedar	Poletimber Well	6.8	135	81-110	
118	6122 - Black Spruce	Sapling Medium	3.3	108	51-80	Areas south of the old utility cut are more productive. OPIC - FMD: BEAVER FLOODING OF RECENT ORIGIN.
120	6112 - Lowland Aspen	Sapling Medium	23.4	14	Immature	Becomes wetter to west with increasing densities of alder. Supercanopy fir and spruce remain from previous stand with their progeny in the ground layer and tickling the main canopy. Big tooth generally confined to dry ridge in east. Lots of buck rubs. OPIC - FMD: Much more conifer in the regen than stand 20, Cut 2003, sale 027-00.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
126	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	7.9	44	1-50	OPIC - FMD: SOME LARCH, SPRUCE & SCATT ASPEN.
127	6120 - Lowland Cedar	Poletimber Well	55.0	131	171-200	A fairly dense cedar stand. Small blowdown patches are common, although probably not as much as nearby stands to the north and west. In the blowdown patches black spruce, balsam fir and tamarack seem the most common regeneration. As elsewhere in this block of stands west of Rainy Lake Rd, mature Tamarack is dying out. The southern boundary toward private land is a little higher. The private boundary may be surveyed as t-posts and rebar are present. The white pine that stud this stand apparently escaped the axe during the cutover.
128	6120 - Lowland Cedar	Poletimber Well	17.2	134	141-170	Still wet; Higher density and more consistent diameters. Stand origin likely same as to south. OPIC - FMD: BETTER QUALITY IN WESTERN PART. in good shape.
129	6130 - Fir, Aspen, Maple	Poletimber Well	11.4	76	1-50	Southeast is fir dominated. Older fir seems to be falling apart. Decadent aspen. Stand regenerating to fir, red maple saplings. Very dense fir. OPIC - FMD: WHITE PINE POLE FOR THE MOST PART, BUT NE HAS MORE ASPEN. ILLEGAL TRIAL AND BLINDS
141	6124 - Lowland Spruce- Fir	Poletimber Medium	10.6	64	51-80	Non productive muskeg heavy to black spruce south and swamp hardwoods to north. Drier productive upland in northeast along with trails and hunt club trespass. Wide range of species sizes ages. Surprising amount of natural red pine. OPIC - FMD: HAS A FEW TREES, BUT PRETTY WET.
143	6122 - Black Spruce	Poletimber Well	6.0	95	111-140	A spruce swale or transition between dry upland ridges and non productive wetlands.
150	4319 - Mixed Upland Forest	Poletimber Well	2.3	79	81-110	Landowner notes he heard a bobcat in the past. Some evidence of hunting trespass but not super recent. A natural continuation of stand 50 but with different disturbance history with agriculture next door. Also tends to be higher and drier, with only one alder pocket. OPIC - FMD: MOSTLY DEAD OR BLOWN DOWNMAKES A GOOD HUNTING GROUND FOR BOBCAT AND RELATIVES.
157	6130 - Fir, Aspen, Maple	Poletimber Medium	27.8	72	51-80	OPIC - FMD: A wet stand with tag alder and trees competing for the hummocks. Judging by the decomposing stumps, this was a swamp conifer stand when it was cut in the twenties. It came back an E or P. Today, all that is left is 40 BA in red maple, plus scattered aspen and white birch. The aspen and birch are poor quality and collapsing. The understory is fully stocked with 1 to 4 inch DBH balsam fir.
220	6130 - Fir, Aspen, Maple	Poletimber Well	3.6	54	81-110	OPIC - FMD: VALUABLE BEDDING AREA--GET RID OF BEAVER DAM
223	429 - Mixed Upland Conifers	Poletimber Well	6.9	79	81-110	Ridge dominated by white pine, about 100-140 year old legacy trees. 80 and 40 year old cohorts. Pine is more common in the west, black spruce on the fringes and center.



Stand	Cover Type	Acres	Managed Site	General Comments:
9	6220 - Alder/willow	1.8	No	Dense alder pocket in the middle of the stand.
16	6220 - Alder/willow	60.6	No	Scattered isolated balsam fir, black spruce, dead black ash. Very dense alder and lowland brush. Occasional old stumps seem to suggest larger cedar were once in this stand.
21	6224 - Treed Bog	17.1	No	A drainage in the south and west, transitioning to cattail marsh studded mainly with swamp conifers and finally to tree densities approaching and exceeding the forested threshold in the north and east. Too wet almost everywhere and probably non-productive where trees occur in densities to consider it forested. OPIC - FMD: BEAVER FLOODING OF RECENT ORIGIN.
34	6225 - Bog	12.5	No	Lumped the red pine and meadowsweet island in with this stand. OPIC - FMD: COMBINATION OF MARSH AND BOG AROUND LAKE
35	500 - Water	18.1	No	OPIC - FMD: WEST GORMAN LAKE;
40	6220 - Alder/willow	5.5	No	
42	629 - Mixed non-forested wetland	29.3	No	Pools and ponds usually associated with beaver activity. Cattails, rushes, alder, dead swamp conifers and ash. Many ponds seem to support active beaver lodges.
43	3104 - Degraded	3.0	No	Active gas/oil wells.
45	6229 - Mixed lowland shrub	11.8	No	Lowland brush with marsh sedges and grass especially toward river. Fringed with (dead) black ash. OPIC - FMD: VERY WET--BEAVER IMPACTED
46	6229 - Mixed lowland shrub	41.9	No	OPIC - FMD: OI Stand Year Origin was
51	6220 - Alder/willow	65.8	No	Small stands, islands and peninsulas of red maple, balsam fir and paper birch ranging from saplings to log size dot this lowland brush stand. OPIC - FMD: PREVENTS ACCESS TO SMALL STAND TO WEST
54	6229 - Mixed lowland shrub	48.0	No	Black ash has largely died off leaving red maple to take over with fir and spruce. Areas that could be considered forested are small. The examiner decided to consider them inclusions in lowland brush. OPIC - FMD: Rainy River.
60	122 - Road/Parking Lot	7.2	No	Power line ROW.
66	122 - Road/Parking Lot	1.0	No	Road leading to wells.
72	622 - Lowland Shrub	5.3	No	Muskeg, holly and alder brush.



Stand	Cover Type	Acres	Managed Site	General Comments:
74	6229 - Mixed lowland shrub	173.5	No	Peripheral areas are dead ash over alder brush. Future stand examiners may wish to see if lowland conifers make these areas forested.
78	122 - Road/Parking Lot	37.9	No	NEST rail-trail. Invasive species: knapweed, autumn olive. Just about every tree species represented since this stand bisects virtually all the types in the compartment.
79	122 - Road/Parking Lot	5.7	No	Rainy Lake Road ROW, ditched either side. Channelized branch of the Rainy River on the East side.
87	6229 - Mixed lowland shrub	7.1	No	Scattered trees in brush and marsh.
108	6224 - Treed Bog	18.4	No	OPIC - FMD: SOME LARCH, SPRUCE & SCATT ASPEN.
113	122 - Road/Parking Lot	0.8	No	Trail/road
114	6239 - Mixed Emergent Wetland	9.0	No	Phragmites probably is a native variety. OPIC - FMD: BEAVER FLOODING OF RECENT ORIGIN.
116	6229 - Mixed lowland shrub	11.7	No	Mostly alder but also includes some small forested areas, including pole and log size trees, that are too wet to harvest and don't fit well with surrounding stands. OPIC - FMD: BEAVER FLOODING OF RECENT ORIGIN.
119	3303 - Mixed Low Density Trees	1.3	No	Abandoned well pad brushing in with balsam poplar, fir, quaking aspen and just a touch of trash. OPIC - FMD: OLD WELL PAD WITH TRASH--CLEAN UP AND CLOSE ROAD
149	3102 - Grass	8.2	No	Invasive species: knapweed, autumn olive, st. John's wart, chickory, queen anne's lace. Records indicate this stand was cut north of the rail grade as a part of a past trespass. Current owner seems to know where boundary is as there's an electric fence running on or near the E-W 40 line. Included the shrubby upland to the south of the rail grade.
152	3104 - Degraded	2.3	No	abandoned wellhead
161	211 - Cropland	1.4	No	A tilled, maintained food plot. Trees/ shrubs used to benefit wildlife are planted throughout..
175	500 - Water	14.6	No	Ponds and pools, most with active beaver lodges. OPIC - FMD: many wet holes.
251	6229 - Mixed lowland shrub	9.1	No	Walkable beaver dam from bend in the road to the opening.
258	6224 - Treed Bog	3.3	No	Boggy drainage



Stand	Cover Type	Acres	Managed Site	General Comments:
316	622 - Lowland Shrub	62.3	No	OPIC - FMD: SOME LARCH, SPRUCE & SCATT ASPEN.
409	3104 - Degraded	1.4	No	Well site covered in spotted knapweed. Aspen sprouts from adjacent lowland aspen stand encroach from the edges. OPIC - FMD: ACTIVE OIL WELL SITE
420	3104 - Degraded	1.3	No	OPIC - FMD: OLD WELL PAD WITH TRASH
433	3102 - Grass	2.4	No	Nice bit of little bluestem
464	3104 - Degraded	1.9	No	Surmise this was an old well pad. No active well. As many are, choked with knapweed.