



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54068

Entry Year 2024

Acreage: 3,003

County Montmorency

Management Area: Thunder Bay Outwash

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**Stand Examiner:** Richard Barber

**Legal Description:**

T32N, R03E, Secs. 3, 4, 9, 10, & 15.

**Identified Planning Goals:**

Wildlife, Massasauga rattlesnake habitat, Rainy River ERA Complex, and timber.

**Soil and topography:**

Glacial eskers and till fields separate lowlands. Soils range from wet mucks to sorted gravel.

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

State land surrounding with private ownership to the north.

**Unique Natural Features:**

One or more reported.

**Archeological, Historical, and Cultural Features:**

None Listed.

**Special Management Designations or Considerations:**

Rainy River ERA Complex lies in this compartment. And the entire compartment is within an HCVA for Eastern Massasauga Managed Land.

**Watershed and Fisheries Considerations:**

Upper and Lower Tomahawk Lakes are found in this compartment. They are connected by the West Branch of the Upper Rainy River, which is a designated cold water stream. The Rainy River Dam has been removed, and the Rainy River Flooding no longer exists.

**Wildlife Habitat Considerations:**

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

No active sand/gravel pits occur in the area. There may be some sand & gravel potential in the compartment, but any surface mining would be inhibited by wetlands. There is no known potential for hydrocarbon production from proven formations beneath the compartment. The Antrim Shale appears to be absent, and numerous test wells drilled just west of the compartment indicate that there is unlikely to be potential for Silurian reefs. The nearest oil & gas production, past or present is several miles away, and there has been no recent well permit activity in the area. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

Access has been greatly improved in recent years. There are still areas which require mats, bridges or both. Also, unneeded wet road segments which should be closed because they've allowed phragmites to become established upstream from an ERA.

**Survey Needs:**

No surveys are needed at this time.

**Recreational Facilities and Opportunities:**

Hunting, fishing, and wildlife viewing.

**Fire Protection:**

Primary protection is provided by Hillman Township VFD and MDNR, with mutual aid from Tri-Township VFW.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

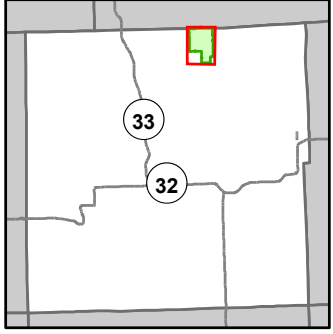
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

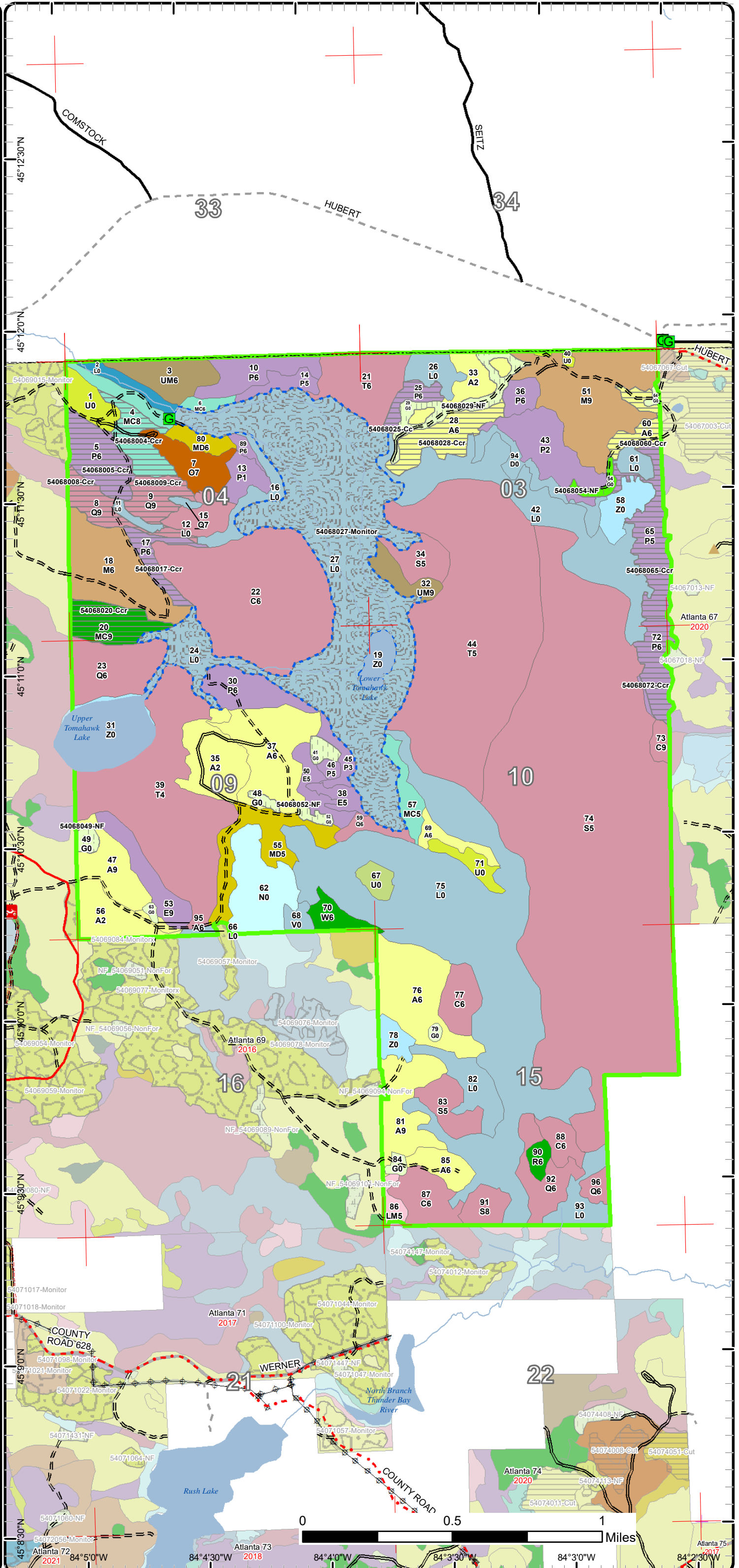
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 68  
 T32N, R03E, Sec. 3, 4, 9, 10, 15  
 County: Montmorency  
 Unit: Atlanta  
 Mgmt Area: Thunder Bay  
 Outwash  
 YOE: 2024  
 Acres: 3002.9 GIS Calculated  
 Examiner: Richard Barber  
 Map Revised: 11/16/2022  
 Map Phase: Post-Review

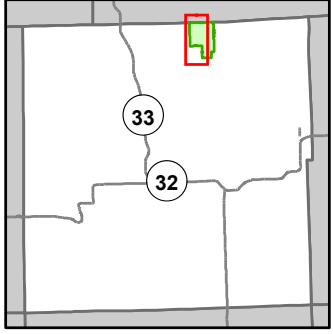


- Miris Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- ORV Routes
- Designated ATV
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Gate
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Opening Maintenance
- Monitoring
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
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- 613 - Lowland Mixed Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

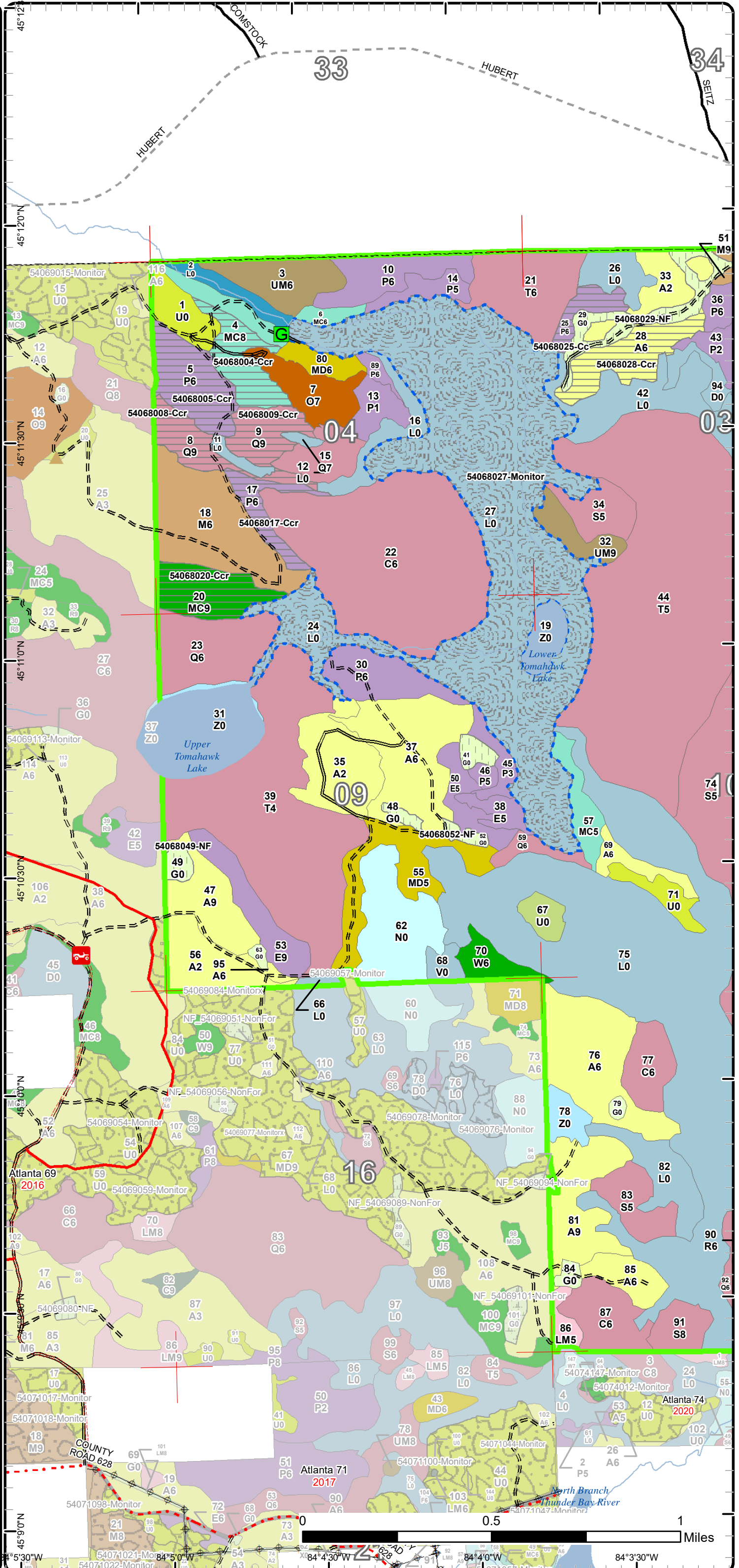


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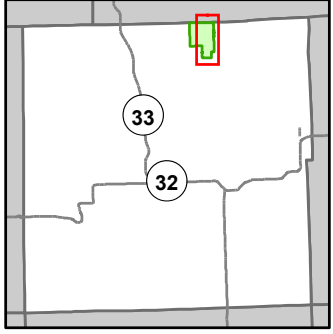


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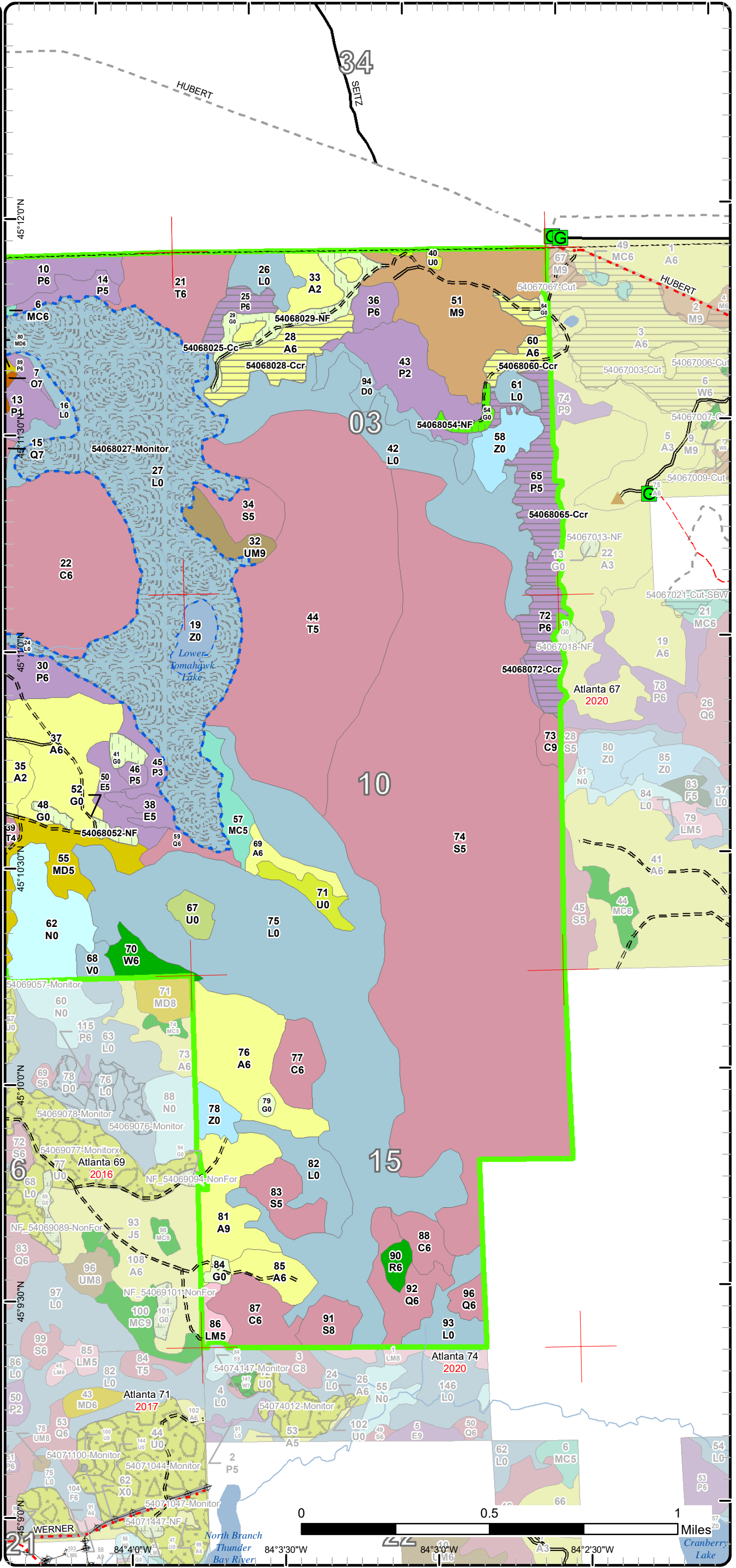


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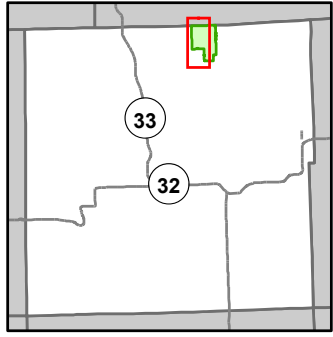


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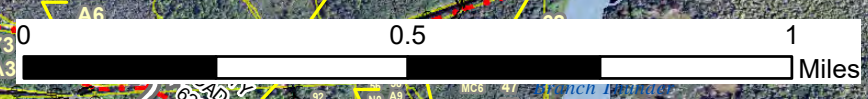
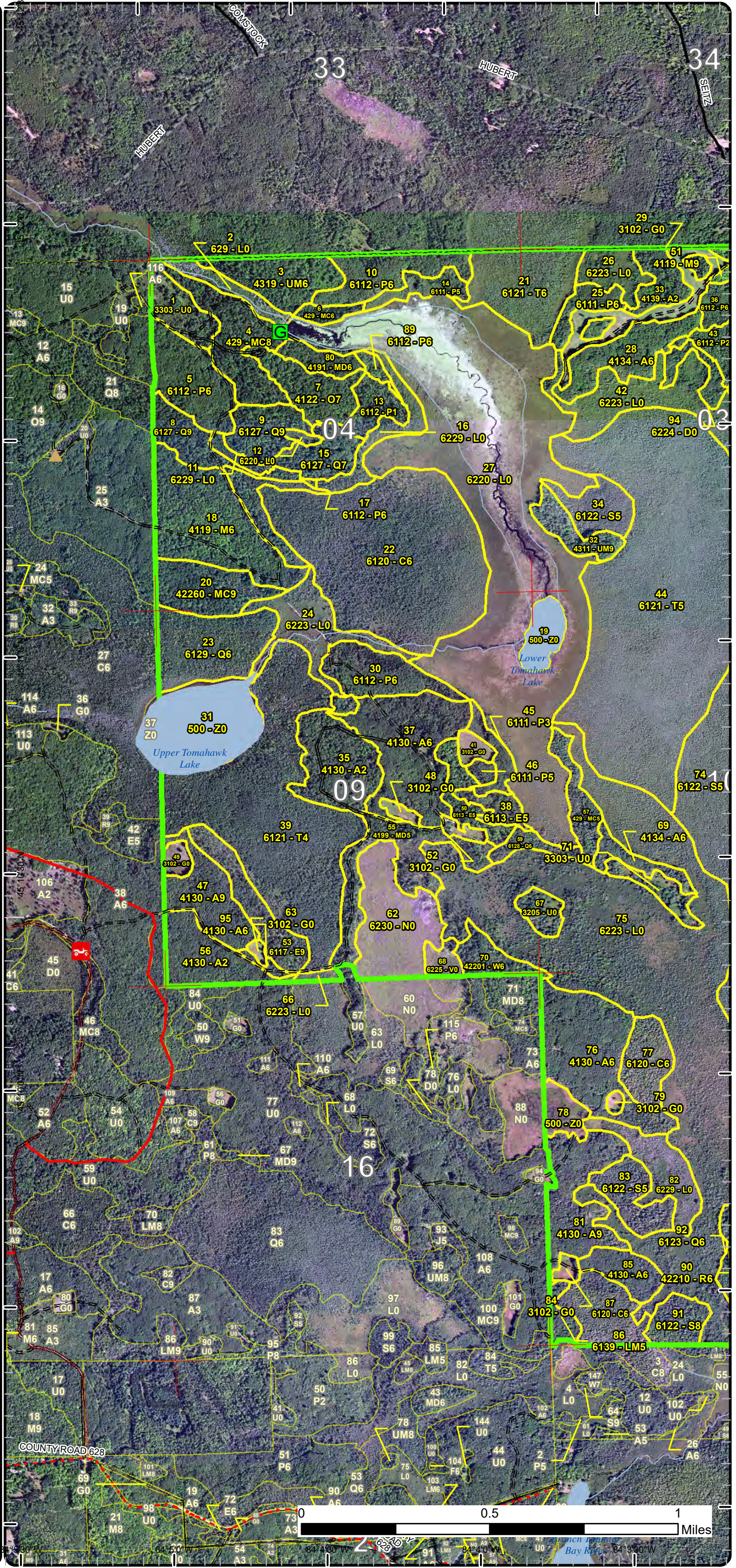


# Stand Boundary Map

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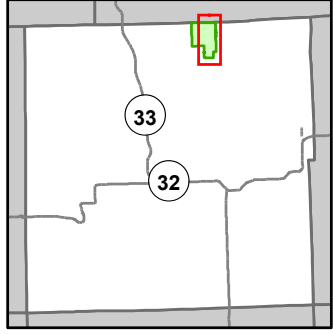


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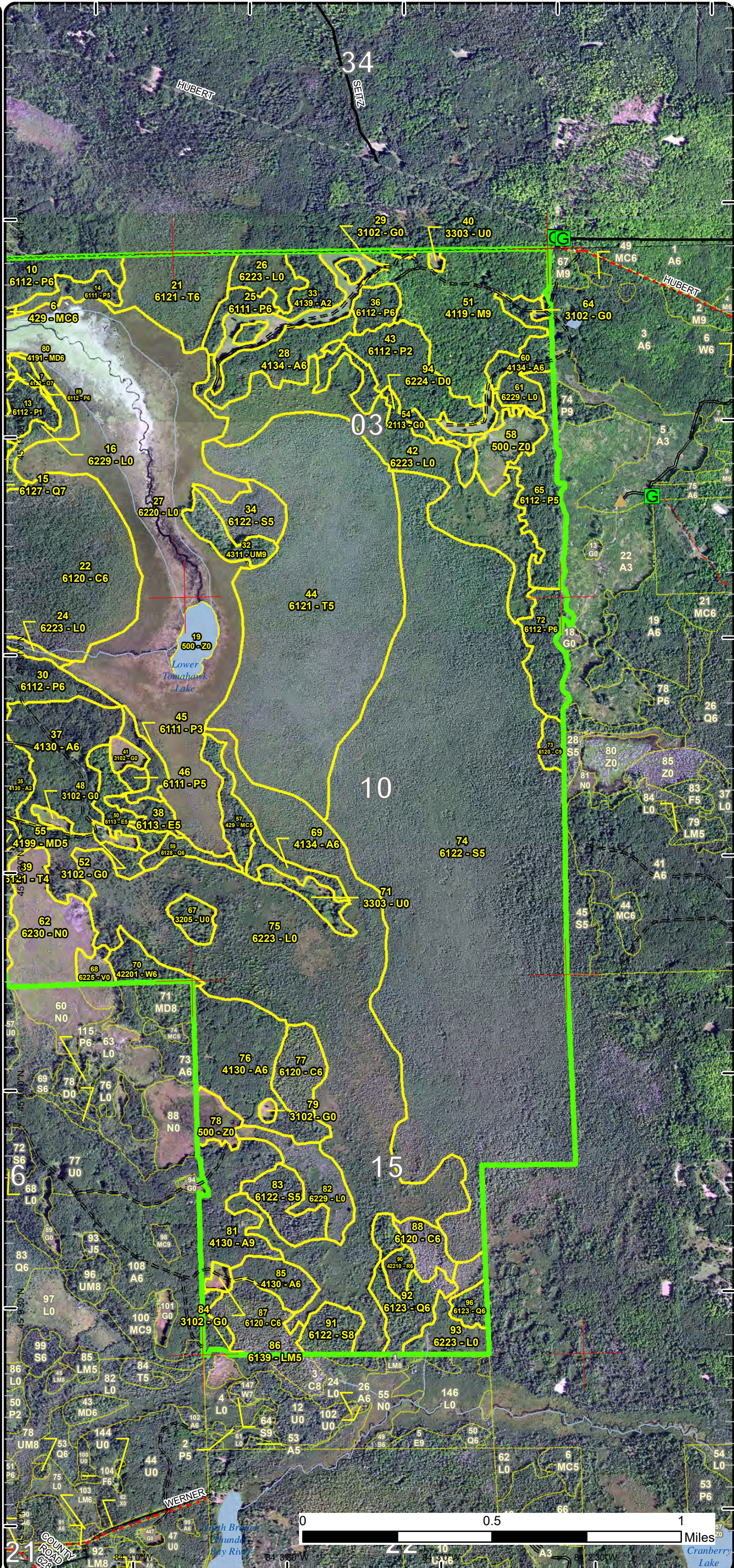


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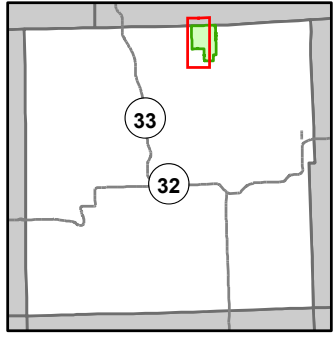


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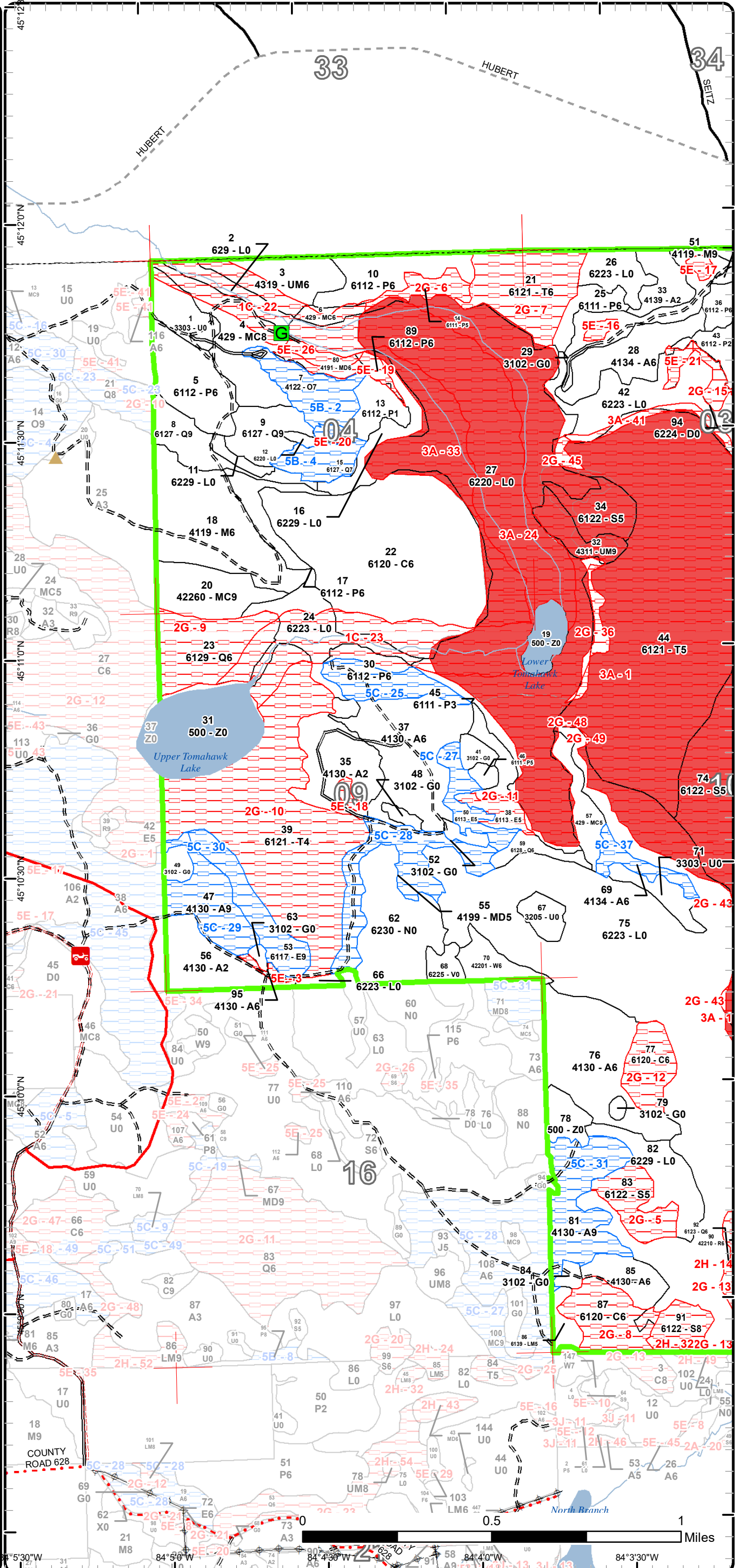


# Special Conservation Areas

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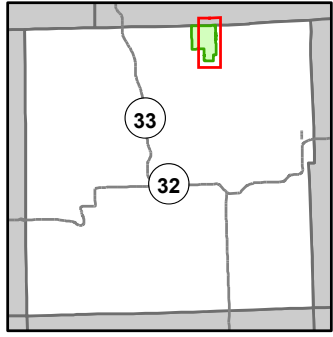
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- Compartment Boundary
- Available w/ Constraints
  - 5B: Maintain for regeneration purposes
  - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
  - 1C: Other dept or div proc/practices
  - 2G: Too wet (sensitive 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
  - 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams



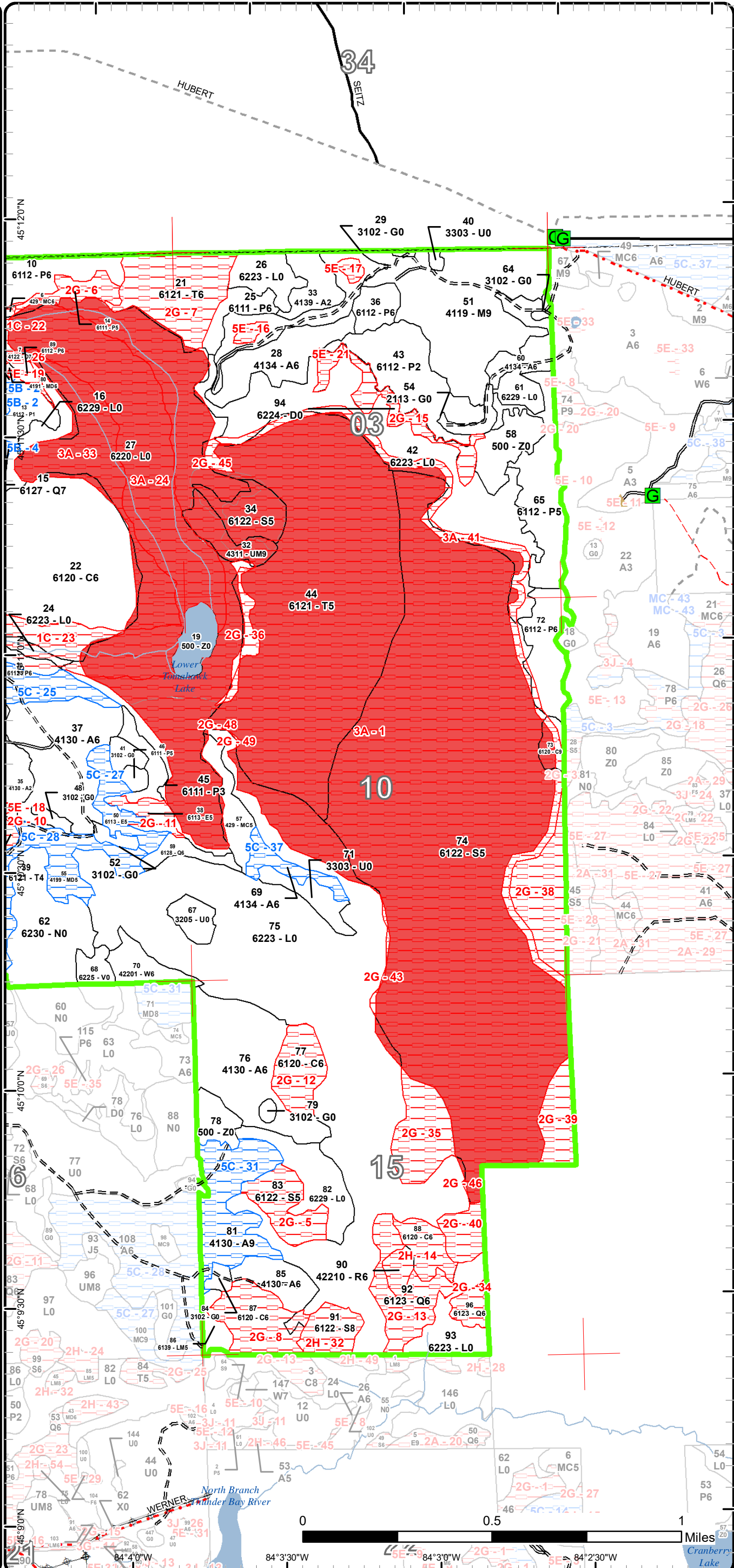


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- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Riparian Area



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	67	0	0	46	67	70	25	0	0	0	0	0	0	0	0	0	0	275
Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	158	5	16	0	0	0	179
Cropland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Herbaceous Openland	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Low-Density Trees	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Lowland Aspen/Balsam Poplar	0	44	0	0	15	25	62	65	0	3	0	0	0	0	0	0	0	0	213
Lowland Conifers	0	0	0	0	0	0	6	0	27	14	50	0	0	16	0	0	0	0	113
Lowland Deciduous	0	0	0	0	0	0	0	0	0	19	0	19	0	0	0	0	0	0	37
Lowland Mixed Forest	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Shrub	740	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	740
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	11	16	531	0	0	0	0	0	558
Marsh	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	8	0	31	0	0	0	0	0	0	38
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	22
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	50	71	0	0	0	0	0	0	121
Oak	0	0	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	19
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	5
Tamarack	0	0	0	0	0	0	0	0	0	125	0	35	228	0	0	0	0	0	388
Treed Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Conifers	0	0	0	0	0	16	0	0	0	0	0	0	29	0	0	0	0	0	45
Upland Mixed Forest	0	0	0	0	0	0	22	0	0	0	0	0	11	0	0	0	0	0	33
Upland Shrub	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Water	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
White Pine	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
<b>Total</b>	<b>938</b>	<b>111</b>	<b>0</b>	<b>0</b>	<b>61</b>	<b>108</b>	<b>175</b>	<b>90</b>	<b>27</b>	<b>169</b>	<b>133</b>	<b>191</b>	<b>957</b>	<b>26</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2998</b>



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 68

Total Compartment Acres: 3,003

Commercial Harvest - 204  
 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	36	0	0	0	0	0	0	0	0	36
Lowland Aspen/Balsam Poplar	96	0	0	0	0	0	0	0	0	96
Lowland Conifers	32	0	0	0	0	0	0	0	0	32
Natural Mixed Pines	22	0	0	0	0	0	0	0	0	22
Upland Conifers	19	0	0	0	0	0	0	0	0	19
<b>Total</b>	<b>204</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>204</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	204	0	0	0	0	0	294	0	36	534
Next Step	0	0	0	0	0	294	514	0	0	809
<b>Total</b>	<b>204</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>294</b>	<b>809</b>	<b>0</b>	<b>36</b>	<b>1343</b>



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	Habitat Cut
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**Proposed Treatments:**

<b>4</b>	<b>54068004-Ccr</b>	18.7	429 - Mixed Upland Conifers	Sawtimber Medium	112	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Treatment is outside cold water buffer. Apply timing and habitat enhancement requirements for EMR CCAA. Use <u>Specs:</u> 5.2.4.5 - Dead and down creation, reptiles and amphibians.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, oak, pine, maple, 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>											
<b>5</b>	<b>54068005-Ccr</b>	26.4	6112 - Lowland Aspen	Poletimber Well	63		Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species overall mix. Use grouse spec 5.2.4.7, 12" minimum diameter fully merchantable tree, one per two acres.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, oak, pine, maple, 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>											
<b>8</b>	<b>54068008-Ccr</b>	15.8	6127 - Lowland Pine	Sawtimber Well	92	141-170	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Apply timing and habitat enhancement requirements for EMR CCAA. Use 5.2.4.5 - Dead and down creation, reptiles and amphibians.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Maple, oak, spruce, pine 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>											



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	Habitat Cut
9	54068009-Ccr	15.9	6127 - Lowland Pine	Sawtimber Well	127	1-50	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Apply timing and habitat enhancement requirements for EMR CCAA. Use 5.2.4.5 - Dead and down creation, reptiles and amphibians.</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> Aspen, oak, pine, maple, 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>											
17	54068017-Ccr	11.3	6112 - Lowland Aspen	Poletimber Well	54		Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Apply timing and habitat enhancement requirements for EMR CCAA. Use grouse spec 5.2.4.7, 12" minimum diameter fully merchantable tree, one per two acres. Sale may be smaller than expected due to wet conditions.</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> aspen, maple, oak, birch, spruce, fir, pine, or cedar</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>											
20	54068020-Ccr	22.4	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	97	141- 170	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Clearcut with retention. Apply timing and habitat enhancement requirements for EMR CCAA.</p> <p><u>Specs:</u> Use 5.2.4.5 - Dead and down creation, reptiles and amphibians.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, oak, pine, maple, 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>											
25	54068025-Cc	8.5	6111 - Lowland Balsam Poplar	Poletimber Well	62	81-110	Harvest	Clearcut	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut. No retention due to small size. Use grouse spec 5.2.4.7, 12" minimum diameter fully merchantable tree, one per two acres. Apply timing and habitat enhancement requirements for EMR CCAA.</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> Aspen, maple, oak, fir, birch, spruce, pine.</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>											



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	Habitat Cut
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27	<b>54068027-Monitor</b>	294.3	6220 - Alder/willow	Nonstocked		Unspec ified	Monitoring	Invasive Species	623 - Emergent Wetland		No
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Prescription Survey for invasive phragmites. Apply herbicide if found.  
Specs:

Next Step Pesticide, Hand Application; Monitoring, Herbicide Use  
Treatments:

Acceptable Native species free from invasive phragmites.  
Regen:

Other  
Comment:

Site Condition Conservation Values

Proposed Start Date: 10/1 /2023

28	<b>54068028-Ccr</b>	23.1	4134 - Aspen, Spruce/Fir	Poletimber Well	60	141- 170	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with retention. Use island in stand 29 for retention. Use grouse spec 5.2.4.7, 12" minimum diameter fully merchantable tree, one per two acres. Apply timing and habitat enhancement requirements for EMR CCAA.  
Specs:

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

Acceptable Aspen, oak, pine, maple, fir.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023

29	<b>54068029-NF</b>	18.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.  
Specs:

Follow EMR restrictions and guidelines

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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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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<b>41</b>	<b>54068041-NF</b>	4.1	3102 - Grass	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Follow EMR restrictions and guidelines.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>48</b>	<b>54068048-NF</b>	2.3	3102 - Grass	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Following EMR restrictions and guidelines.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>49</b>	<b>54068049-NF</b>	4.0	3102 - Grass	Nonstocked	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Specs: Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Follow EMR restrictions and guidelines

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 10/1 /2023



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	Habitat Cut
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52	54068052-NF	2.9	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Specs:

Follow EMR restrictions and guidelines

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

54	54068054-NF	4.2	2113 - Forage Crops	Nonstocked		Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening may be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, herbicide, or other agriculture practices.

Specs:

Follow EMR restrictions and guidelines

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

60	54068060-Ccr	12.5	4134 - Aspen, Spruce/Fir	Poletimber Well	52	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Clearcut with retention. Use grouse spec 5.2.4.7, 12" minimum diameter fully merchantable tree, one per two acres. Apply timing and habitat enhancement requirements for EMR CCAA. Sale acreage may be significantly less than predicted due to wet conditions.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, oak, pine, maple, spruce, fir.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023





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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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<b>65</b>	<b>54068065-Ccr</b>	30.3	6112 - Lowland Aspen	Poletimber Medium	66	51-80	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Clearcut with retention. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species overall mix. Apply timing and habitat enhancement requirements for EMR CCAA. Use grouse spec 5.2.4.7, 12" minimum diameter fully merchantable tree, one per two acres. Sale acreage may be significantly less than predicted due to wet conditions.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, oak, pine, maple, spruce, fir.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

<b>72</b>	<b>54068072-Ccr</b>	19.4	6112 - Lowland Aspen	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
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Prescription Clearcut with retention. Retain 3 to 10 percent of treatment area in one or more patches. Location(s) will be determined during sale prep and will be representative of the treatment's species overall mix. Apply timing and habitat enhancement requirements for EMR CCAA. Use grouse spec 5.2.4.7, 12" minimum diameter fully merchantable tree, one per two acres. Sale acreage may be significantly less than predicted due to wet conditions.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, oak, pine, maple, spruce, fir.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2023

**Total Treatment Acreage Proposed: 534.4**

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Richard Barber : Examiner

Compartment: 68  
Year of Entry: 2024

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions								
		With Condition				5B	5C	1C	2G	2H	3A	5E		
275	203	<b>64</b>		8	Aspen		<b>64</b>							8
5	5	<b>0</b>		0	Bog									
179	110	<b>0</b>		69	Cedar			14	37	10		8		
4	4	<b>0</b>		0	Cropland									
38	38	<b>0</b>		0	Herbaceous Openland									0
24	23	<b>0</b>		1	Low-Density Trees			1						
213	178	<b>16</b>		18	Lowland Aspen/Balsam Poplar		<b>16</b>	5	8			2		3
113	38	<b>13</b>		61	Lowland Conifers	<b>13</b>		6	55					0
38	0	<b>31</b>		7	Lowland Deciduous		<b>31</b>		7			0		0
5	5	<b>0</b>		0	Lowland Mixed Forest									
740	414	<b>0</b>		326	Lowland Shrub			35	1	0		289		0
559	1	<b>0</b>		558	Lowland Spruce/Fir				86	11		460		
37	37	<b>0</b>		0	Marsh									
38	0	<b>30</b>		8	Mixed Upland Deciduous		<b>30</b>							8
22	22	<b>0</b>		0	Natural Mixed Pines									
121	121	<b>0</b>		0	Northern Hardwood									
19	0	<b>19</b>		0	Oak	<b>19</b>								0
5	0	<b>0</b>		5	Red Pine					5				
388	0	<b>0</b>		388	Tamarack			7	160			221		
15	0	<b>0</b>		15	Treed Bog				12					3
45	31	<b>0</b>		15	Upland Conifers			14				1		
34	15	<b>0</b>		19	Upland Mixed Forest			8				11		
7	7	<b>0</b>		0	Upland Shrub									
68	58	<b>0</b>		10	Water							10		
10	10	<b>0</b>		0	White Pine									
3,003	1,322	<b>174</b>		1,507	Total Forested Acres	<b>32</b>	<b>142</b>	90	366	26		1,003		22
	44%	<b>6%</b>		50%	Relative Percent									

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	<b>3A: Conservation Values incompatible with harvest at this time</b>	817	Unspecified	Unspecified	Unspecified	Unspecified

Report 4 – Site Conditions

Atlanta Mgt. Unit  
Richard Barber: Examiner

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<b>Comments:</b> Rainy River ERA Complex							
2	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -area retention for stand 56							
4	Available	5B: Maintain for regeneration purposes	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	34	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Richard Barber : Examiner

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8	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	119	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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13	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	15	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	<b>Unavailable</b>	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	<b>Unavailable</b>	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> area retention stand 33							
18	<b>Unavailable</b>	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Unavailable</b>	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> area retention for stand 7 and 13							

## Report 4 – Site Conditions

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20	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> area retention for stand 15							
21	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Retention for stand to NE.							
22	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	41	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Cold water stream buffer.							
23	<b>Unavailable</b>	<b>1C: Other dept or div proc/practices</b>	49	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> cold water stream buffer.							
24	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	107	1C: Other dept or div proc/practices	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Rainy River ERA Complex & cold water stream buffer.							
25	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

Report 4 – Site Conditions

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Richard Barber : Examiner

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26	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> area retention for stand 7 and 13							
27	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
28	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
29	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
30	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
31	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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Compartment: 68  
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32	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	11	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	48	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Rainy River ERA Complex							
34	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
35	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	21	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
36	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

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Compartment: 68  
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37	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
39	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
40	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
41	<b>Unavailable</b>	<b>3A: Conservation Values incompatible with harvest at this time</b>	30	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
<p>Tomahawk Rich Tamarack Swamp ERA Plan 100 foot buffer. The buffer helps to</p> <ul style="list-style-type: none"> <li>•Reduce increase in frequency of large blowdown events on swamp edge resulting from aggressive stand rotation schedule.</li> <li>•Reduce spread of invasive species (especially buckthorn) to the swamp</li> <li>•Reduce spread of red maple to the swamp.</li> </ul>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Richard Barber : Examiner

Compartment: 68  
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43	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
45	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
46	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
48	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
49	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	3303 - Mixed Low Density Trees	Nonstocked	13.3			No	scatered cherry
2	629 - Mixed non-forested wetland	Nonstocked	8.8		Unspecified	No	Rainy river downstream from the former dam. mixed wetland shrubs, dead standing trees and scattered conifers.

3	4319 - Mixed Upland Forest	Poletimber Well	22.1	52	1-50	N/A	06/20/2012.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	Log	12		Balsam Fir	Low	Variable	Sapling
Red Oak	5	Log	12					
Quaking Aspen	10	Pole	5					
Bigtooth Aspen	11	Pole	6					
White Pine	32	Pole/Sapling	6	52				
Balsam Fir	5	Pole/Sapling	5					
Red Maple	32	Sapling/Pole	4	42				

4	429 - Mixed Upland Conifers	Sawtimber Medium	28.9	112	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Sapling	5		Balsam Fir	Medium	Variable	Sapling
Paper Birch	5	Pole	7		Paper Birch	Low	Variable	Sapling
Balsam Fir	20	Pole/Sapling	6		Red Oak	Low	Variable	Sapling
White Pine	20	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Red Pine	30	Log	16	112				
Bigtooth Aspen	5	Log/Pole	10					

5	6112 - Lowland Aspen	Poletimber Well	26.4	63		N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	35	Pole	7	63	Balsam Fir	Medium	Variable	Sapling
Balsam Poplar	10	Pole	6		Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	20	Pole/Log/Sap	8					
Balsam Fir	20	Pole	6					
White Pine	5	Pole/Sapling	6					
Black Cherry	2	Pole	5					
Red Oak	3	Pole/Log	9					
Red Maple	5	Pole	6					

6	429 - Mixed Upland Conifers	Poletimber Well	4.3	45	111-140	N/A	11/10/2021.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	4	
Balsam Fir	50	Pole	6	45
Red Pine	10	Log/Pole	8	
White Pine	35	Pole/Sapling	7	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
7	4122 - Oak, Pine	Sawtimber Poor	19.3	100	1-50	N/A	-40 ba residual of oak and pine left after harvest -past harvest resulted in more of a shelterwood vs clearcut -cut winter 1/1/17-4/1/17		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		25	Log/Pole	13		Bigtooth Aspen	High	5 - 10 feet	Sapling
Red Pine		5	Log/Pole	13		Red Maple	Medium	< 5 feet	Sapling
Red Oak		70	Log/Pole	13	100	White Pine	Medium	Variable	Sapling
8	6127 - Lowland Pine	Sawtimber Well	15.8	92	141-170	N/A	06/20/2012.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		5	Pole	5		Black Spruce	Low	Variable	Sapling
White Pine		20	Log	16		Red Oak	Low	Variable	Sapling
Red Pine		30	Log	14	92	Beech	Low	Variable	Sapling
Red Maple		15	Pole	7		Red Maple	Low	Variable	Sapling
Black Spruce		30	Pole	8					
9	6127 - Lowland Pine	Sawtimber Well	15.9	127	1-50	N/A	06/20/2012.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		5	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Balsam Fir		15	Pole/Sapling	6		Red Maple	Low	Variable	Sapling
White Pine		20	Log	16		White Pine	Medium	5 - 10 feet	Sapling
Red Pine		40	Log	15	127				
Paper Birch		5	Pole	7					
Red Maple		15	Pole/Sap/Log	7					
10	6112 - Lowland Aspen	Poletimber Well	21.5	45	81-110	N/A	06/20/2012.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		63	Pole	6	45	Balsam Fir	Low	Variable	Sapling
Balsam Fir		25	Pole/Sapling	4					
White Pine		2	Pole/Sapling	5					
Red Maple		10	Pole/Sapling	4					
11	6229 - Mixed lowland shrub	Nonstocked	3.4		Unspecified	No	New stand added. alder, willow, scattered lowland conifers		
12	6220 - Alder/willow	Nonstocked	1.7		Unspecified	No	New stand added.		
13	6112 - Lowland Aspen	Sapling Poor	10.6	5	Immature	N/A	-5 ba residual of oak and pine left after harvest -cut winter 1/1/17-4/1/17		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		30	Sapling	1					
White Pine		3	XLog/Log	18					
Quaking Aspen		67	Sapling	1	5				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
14	6111 - Lowland Balsam Poplar	Poletimber Medium	8.6	51	51-80	N/A	06/20/2012.																																																										
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15	6127 - Lowland Pine	Sawtimber Poor	14.1	87	1-50	N/A	-30 ba residual of oak and pine left after harvest -cut winter 1/1/17-4/1/17 Upland portions are typically medium to well stocked. Lowland portions are medium to poorly stocked, with the wettest areas having the lowest stocking.																																																										
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16	6229 - Mixed lowland shrub	Nonstocked	13.0		Unspecified	No	mostly tag alder with scattered lowland conifers.																																																										
17	6112 - Lowland Aspen	Poletimber Well	11.3	54		N/A																																																											
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18	4119 - Mixed Northern Hardwoods	Poletimber Well	49.7	93	51-80	N/A	-stand was cut during 2/18-3/18 -post-harvest residual BA is 60																																																										
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19	500 - Water	Nonstocked	10.0		Unspecified	No	Lower Tomahawk Lake.																																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**20** 42260 - Natural Pine, Mixed Deciduous Sawtimber Well 22.4 97 141-170 N/A red and white pines are really tall 90+ ft

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Log/Pole	10		White Pine	Medium	Variable	Sapling
Red Pine	50	Log	13	97	Red Maple	Low	Variable	Sapling
Red Maple	10	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
White Pine	10	Log	15		Red Oak	Low	Variable	Sapling
Red Oak	20	Log	14					

**21** 6121 - Tamarack Poletimber Well 34.9 109 Unspecified N/A 06/20/2012

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	90	Pole	6	109	Red Maple	Low	Variable	Sapling
Black Spruce	8	Pole	5		Dogwood (spp.)	Low	< 5 feet	Tall Shrub
Red Maple	2	Pole	6		Alder	Medium	< 5 feet	Tall Shrub

**22** 6120 - Lowland Cedar Poletimber Well 126.7 114 141-170 N/A 06/20/2012. more tamarack to the east

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	15	Pole/Log	8		Black Ash	Low	Variable	Sapling
Balsam Fir	10	Pole	5		Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	50	Pole/Log	8	114	Balsam Fir	Low	Variable	Sapling
Tamarack	10	Pole	6		Red Maple	Low	Variable	Sapling
Paper Birch	5	Pole	6					
Balsam Poplar	10	Pole	7					

**23** 6129 - Mixed Coniferous Lowland Forest Poletimber Well 34.0 99 Unspecified N/A 06/20/2012. Wet.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	10	Pole/Sapling	5		Paper Birch	Low	< 5 feet	Sapling
Balsam Fir	10	Pole/Sapling	5		Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	30	Pole/Sapling	5	99	Red Maple	Low	Variable	Sapling
Northern White Cedar	10	Pole	6					
Tamarack	20	Pole	5					
White Pine	20	Pole/Sapling	5					

**24** 6223 - Inundated Shrub Swamp Nonstocked 25.1 Unspecified No Standing and flowing water throughout the stand. Tag alder,, dogwood, willow and other wetland shrubs and grasses throughout the stand. Also some standing dead trees.  
-Consider blocking the Rd on both sides of the wetland once the north access rd to the dam is fixed and accessable.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
<b>25</b>	6111 - Lowland Balsam Poplar	Poletimber Well	8.5	62	81-110	N/A																																																			
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<b>26</b>	6223 - Inundated Shrub Swamp	Nonstocked	12.0		Unspecified	No	standing water with some beaver activity, mostly tag alder and other shrubs with some balsam poplar and standing dead trees.																																																		
<b>27</b>	6220 - Alder/willow	Nonstocked	269.2		Unspecified	No	Rainy River ERA Complex--Northern Wet Meadow.																																																		
<b>28</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	25.1	60	141-170	N/A																																																			
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<b>31</b>	500 - Water	Nonstocked	34.9		Unspecified	No	Upper Tomahawk Lake																																																		
<b>32</b>	4311 - Pine, Aspen Mix	Sawtimber Well	11.4	119	1-50	N/A	06/22/2012. Large red and white pines with aspen and red maple scattered throughout. Can see the large pines from a distance.																																																		
<b>33</b>	4139 - Aspen, Mixed Deciduous	Sapling Medium	13.5	4	Immature	N/A	Cut completed 2/28/18																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	6122 - Black Spruce	Poletimber Medium	14.6	119	Unspecified	N/A	06/25/2012. Stand is part of an island surrounded by water and swamp, mostly black spruce.
35	4130 - Aspen	Sapling Medium	31.4	5	Immature	N/A	-clearcut complete 6-22-17. Surprisingly little deer browse. Well stocked.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Quaking Aspen	100	Sapling	1	5	
36	6112 - Lowland Aspen	Poletimber Well	8.1	33	81-110	N/A	06/21/2012.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Paper Birch	5	Pole/Sapling	5		
		Quaking Aspen	40	Pole/Sapling	5	33	
		Balsam Poplar	10	Pole/Sapling	6		
		Balsam Fir	25	Pole/Sapling	5		
		Black Ash	5	Pole/Sapling	4		
		Red Maple	15	Pole/Sapling	6		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Balsam Fir	High	Variable	Sapling		
		Black Ash	Low	5 - 10 feet	Sapling		
		Red Maple	Low	Variable	Sapling		
37	4130 - Aspen	Poletimber Well	46.0	34	1-50	N/A	
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	10	Sapling/Pole	3		
		Quaking Aspen	20	Pole/Sapling	5		
		Bigtooth Aspen	60	Pole/Sapling	6	34	
		Balsam Poplar	10	Pole/Sapling	5		
38	6113 - Lowland Maple	Poletimber Medium	6.8	83	51-80	N/A	06/18/2012.
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	80	Pole/Log	9	83	
		Paper Birch	15	Pole/Log	8		
		Quaking Aspen	5	Pole	5		
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Balsam Fir	Low	Variable	Sapling		
		White Pine	Low	Variable	Sapling		
		Alder	Low	Variable	Tall Shrub		
		Pin Cherry	Low	Variable	Tall Shrub		
39	6121 - Tamarack	Poletimber Poor	125.1	87	Unspecified	N/A	06/14/2012. Some black spruce and cedar pockets throughout the stand. Mostly tamarack
		<b>Canopy Species</b>	<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	
		Red Maple	2	Pole/Log	9		
		Paper Birch	3	Pole	6		
		Balsam Fir	5	Pole/Sapling	6		
		Black Spruce	10	Pole	7		
		Northern White Cedar	10	Pole/Sapling	5		
		Tamarack	70	Pole/Sapling	6	87	
		<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>		
		Red Maple	Low	Variable	Sapling		
		Paper Birch	Low	Variable	Sapling		
		Tamarack	Low	Variable	Sapling		
		Alder	Medium	5 - 10 feet	Tall Shrub		
		Black Ash	Low	Variable	Sapling		
		Willow spp.	Low	< 5 feet	Sapling		
40	3303 - Mixed Low Density Trees	Nonstocked	1.8		Unspecified	No	Mostly grass with scattered low density trees



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**41** 3102 - Grass Nonstocked 4.1 Unspecified Managed Opening

**42** 6223 - Inundated Shrub Swamp Nonstocked 79.2 Unspecified No wet with tag alder and scattered tamarack

**43** 6112 - Lowland Aspen Sapling Medium 32.9 5 Immature N/A Cut completed 5/18/17. Walk-through method revealed mostly an A2-A3, with some understocked wet areas.

Canopy Species					Sub-Canopy Species			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	70	Sapling	1	5	Tag Alder	Low	10 - 20 feet	Tall Shrub
Balsam Poplar	30	Sapling	1		Cattail spp.	Low	Unspecified	Non-Wood

**44** 6121 - Tamarack Poletimber Medium 228.0 119 Unspecified N/A 06/18/2012. Tag alder with tamarack and black spruce.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Pole/Sapling	5	
Northern White Cedar	10	Pole/Sapling	4	
Tamarack	80	Pole/Sapling	6	119

**45** 6111 - Lowland Balsam Poplar Sapling Well 7.3 34 Unspecified N/A 06/18/2012, pockets of tag alder

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	3	Sapling	2	
White Pine	2	Sapling	2	
Black Ash	3	Sapling	2	
Red Maple	2	Sapling	2	
Balsam Poplar	40	Sapling	3	
Paper Birch	5	Sapling/Pole	4	
Quaking Aspen	45	Pole/Sapling	5	34

**46** 6111 - Lowland Balsam Poplar Poletimber Medium 2.5 48 51-80 N/A 06/18/2012. May be wet on west side of stand.

Canopy Species					Sub-Canopy Species			
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole/Log	9		Red Maple	Medium	Variable	Sapling
Paper Birch	10	Pole	8		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	20	Pole	6		Alder	Low	Variable	Tall Shrub
Balsam Poplar	60	Pole	8	48				
Black Spruce	2	Pole	8					
Balsam Fir	5	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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47	4130 - Aspen	Sawtimber Well	23.2	56	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Ash	2	Pole	7		Red Oak	Low	Variable	Sapling
Paper Birch	2	Pole	6		Balsam Fir	Low	Variable	Sapling
Red Oak	5	Log	12		White Pine	Low	Variable	Sapling
Bigtooth Aspen	68	Log/Pole	10	56	White Ash	Low	< 5 feet	Sapling
White Pine	3	Pole/Log	9		Red Maple	Low	Variable	Sapling
Balsam Fir	10	Pole	6					
Red Maple	10	Pole	9					

48	3102 - Grass	Nonstocked	2.3		Unspecified	Managed Opening	06/14/2012.
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49	3102 - Grass	Nonstocked	4.0		Unspecified	Managed Opening	autum olive present
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50	6113 - Lowland Maple	Poletimber Medium	11.7	83	51-80	N/A	06/18/2012.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	15	Pole/Log	8		Alder	Low	Variable	Tall Shrub
Quaking Aspen	5	Pole	5		Pin Cherry	Low	Variable	Tall Shrub
Red Maple	80	Pole/Log	9	83	Balsam Fir	Low	Variable	Sapling
					White Pine	Low	Variable	Sapling

51	4119 - Mixed Northern Hardwoods	Sawtimber Well	71.3	108	51-80	N/A	05/07/2018. Cut 9/7/16 through 1/3/17. Residual BA was 70.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	44	Pole/Log	8	108	White Ash	Low	< 5 feet	Sapling
Red Maple	20	Log/Pole	10		Beech	Low	< 5 feet	Sapling
Basswood	20	Log	11		Balsam Fir	Low	< 5 feet	Sapling
Beech	1	Log/Pole	14		Ironwood	Low	Variable	Sapling
Paper Birch	5	Pole	7		Sugar Maple	Medium	Variable	Sapling
Ironwood	10	Pole	6					

52	3102 - Grass	Nonstocked	2.9		Unspecified	Managed Opening	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**53** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 19.4 104 51-80 N/A 06/25/2012.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	30	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	25	Pole	7		Red Maple	Low	Variable	Sapling
Tamarack	2	Pole	7					
Paper Birch	10	Pole/Log	8					
Red Maple	33	Log/Pole	12	104				

**54** 2113 - Forage Crops Nonstocked 4.2 Unspecified Managed Opening

**55** 4199 - Other Mixed Upland Deciduous Poletimber Medium 30.5 102 51-80 N/A 06/14/2012.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	26	Pole	8		Paper Birch	Low	Variable	Sapling
Balsam Poplar	2	Pole	5		Bigtooth Aspen	Low	10 - 20 feet	Sapling
Balsam Fir	5	Pole/Sapling	5		White Pine	Low	Variable	Sapling
White Pine	5	Pole/Sapling	6		Balsam Fir	Low	Variable	Sapling
Jack Pine	2	Pole/Sapling	5		Red Oak	Low	5 - 10 feet	Sapling
Choke Cherry	2	Pole/Sapling	5		Red Maple	Low	Variable	Sapling
Paper Birch	29	Pole	8					
Red Maple	29	Pole/Log	10	102				

**56** 4130 - Aspen Sapling Medium 22.5 5 Immature N/A -clearcut fall 2017  
Medium to well stocked on walk through. Little deer browse.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	100	Sapling	1	5

**57** 429 - Mixed Upland Conifers Poletimber Medium 11.9 45 51-80 N/A 06/18/2012.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	10	Pole/Log	9		Balsam Fir	Low	Variable	Sapling
Jack Pine	2	Pole	5					
Bigtooth Aspen	20	Pole/Sapling	5					
White Pine	20	Pole	7					
Black Spruce	10	Pole/Sapling	5					
Balsam Fir	38	Pole	5	45				

**58** 500 - Water Nonstocked 14.5 Unspecified No Beaver activity, standing water with mixed lowland shrubs and scattered low density lowland trees



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
59	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	6.3	59	Unspecified	N/A	06/18/2012.																																								
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61	6229 - Mixed lowland shrub	Nonstocked	6.2		Unspecified	No	Tag Alder																																								
62	6230 - Cattail	Nonstocked	37.4			No	cattails, tag alder, an dead standing timber. intermitant flooding																																								
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Choke Cherry	2	Pole/Sapling	5																																												
Quaking Aspen	88	Pole/Log	9	66																																											
Sub-Canopy Species	Density	Avg. Height	Size																																												
Alder	High	5 - 10 feet	Tall Shrub																																												
Choke Cherry	Low	< 5 feet	Sapling																																												
66	6223 - Inundated Shrub Swamp	Nonstocked	2.0		Unspecified	No	Mostly tag alder with some black ash and fir																																								
67	3205 - Mixed Upland Shrub	Nonstocked	7.0		Unspecified	No	Mostly open high spot sourounded by lowland tag alder stand																																								
68	6225 - Bog	Nonstocked	5.2		Unspecified	No	dead and dying black spruce																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
69	4134 - Aspen, Spruce/Fir	Poletimber Well	8.1	48	111-140	N/A	06/18/2012.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		25	Pole	5		Balsam Fir	Low	< 5 feet	Sapling
Bigtooth Aspen		75	Pole	6	48	Choke Cherry	Low	Variable	Tall Shrub
70	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	10.0	56	81-110	N/A	06/19/2012. Rolling terrain, mainly white pine with clumps of small diameter aspen. More red maple in the eastern part of stand.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Jack Pine		5	Pole	6		White Pine	High	10 - 20 feet	Sapling
White Pine		65	Pole/Sap/Log	7	56				
Bigtooth Aspen		15	Pole/Sapling	6					
Red Maple		11	Pole/Log	8					
Paper Birch		4	Pole/Log	9					
71	3303 - Mixed Low Density Trees	Nonstocked	8.7		Unspecified	No	scattered aspen, cherry, and fir		
72	6112 - Lowland Aspen	Poletimber Well	20.4	57	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Poplar		20	Pole	7		Black Spruce	Low	Variable	Sapling
Red Maple		15	Pole/Log	9		Choke Cherry	Low	< 5 feet	Tall Shrub
Quaking Aspen		50	Pole	6	57	Balsam Fir	Low	< 5 feet	Sapling
Black Spruce		15	Pole/Log	8		Red Maple	Low	Variable	Sapling
73	6120 - Lowland Cedar	Sawtimber Well	5.2	123	201+	N/A	06/25/2012.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Balsam Poplar		5	Pole/Log	9					
Black Spruce		5	Pole	7					
Northern White Cedar		90	Log/Pole	9	123				
74	6122 - Black Spruce	Poletimber Medium	516.8	119	Unspecified	N/A	06/25/2012. Standing water, slow growing and stagnant trees. Black ash is dead or dying.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Northern White Cedar		8	Pole/Sapling	5					
Tamarack		15	Pole	5					
Black Ash		2	Pole/Sapling	5					
Black Spruce		75	Pole	6	119				
75	6223 - Inundated Shrub Swamp	Nonstocked	282.8		Unspecified	No	Mostly tag alder and other lowland shrubs, some staning water and dead trees.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
<b>76</b>	4130 - Aspen	Poletimber Well	46.5	44	111-140	N/A	06/19/2012. Scattered basswood and white spruce. Lower areas have more spruce and fir present																																																	
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<b>77</b>	6120 - Lowland Cedar	Poletimber Well	15.9	132	141-170	N/A	06/19/2012. Standing water throughout the stand																																																	
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<b>78</b>	500 - Water	Nonstocked	8.3		Unspecified	No																																																		
<b>79</b>	3102 - Grass	Nonstocked	1.4		Unspecified	No																																																		
<b>80</b>	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.0	80	81-110	N/A	07/24/2018. -area retention for stand 7 and stream protection																																																	
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<b>81</b>	4130 - Aspen	Sawtimber Well	32.6	51	81-110	N/A																																																		
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<b>82</b>	6229 - Mixed lowland shrub	Nonstocked	20.2		Unspecified	No	mostly tag alder with scattered black spruce, tamarack, and dead/dying black ash.																																																	
<b>83</b>	6122 - Black Spruce	Poletimber Medium	16.3	106	111-140	N/A	06/19/2012. very wet with pockets of tag alder																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**84** 3102 - Grass Nonstocked 2.6 Unspecified Managed Opening

**85** 4130 - Aspen Poletimber Well 12.0 47 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	11	Log	12		Balsam Fir	High	10 - 20 feet	Sapling
Quaking Aspen	20	Pole	9		Black Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen	66	Pole/Log	9	47				
Balsam Fir	3	Pole/Sapling	5					

**86** 6139 - Mixed Lowland Forest Poletimber Medium 5.3 59 51-80 N/A

06/18/2012. Lowland mix with pockets of log sized cedar and pockets of aspen.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	22	Sapling/Pole	6		Black Spruce	Low	Variable	Sapling
Paper Birch	20	Pole/Sap/Log	7		Pin Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen	10	Pole	8		Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce	25	Pole/Log	8	59	Red Pine	Low	Variable	Sapling
Northern White Cedar	13	Log	13					
Balsam Fir	10	Sapling/Pole	5					

**87** 6120 - Lowland Cedar Poletimber Well 20.8 117 111-140 N/A

06/18/2012. tag alder and dying black ash throughout. More aspen and balsam fir near the edge.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	8	Sapling/Pole	6		Alder	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	5	Pole/Sap/Log	8		Balsam Fir	Medium	Variable	Sapling
Black Spruce	6	Pole/Sapling	6					
Northern White Cedar	75	Log/Pole	12	117				
Balsam Fir	6	Pole/Sapling	4					

**88** 6120 - Lowland Cedar Poletimber Well 10.2 112 111-140 N/A

06/21/2012. Lowland cedar, no access.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	2	Sapling/Pole	4		Black Ash	Low	5 - 10 feet	Sapling
Black Spruce	10	Pole	6		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	85	Pole/Log	9	112				
Balsam Fir	3	Pole/Sapling	4					

**89** 6112 - Lowland Aspen Poletimber Well 2.9 80 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Log/Pole	13	
Red Maple	15	Pole/Log	8	
Balsam Fir	10	Pole/Log	9	
Quaking Aspen	65	Pole/Log	8	80



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>90</b>	42210 - Natural Red Pine	Poletimber Well	4.9	126	171-200	N/A	06/20/2012
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Log	17	
Red Oak	4	Log	11	
Paper Birch	2	Pole	8	
Bigtooth Aspen	6	Log	12	
White Pine	10	Log	18	
Red Pine	75	Log	21	126

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
White Pine	Medium	Variable	Sapling
Black Spruce	Low	Variable	Sapling
Hemlock	Low	>20 feet	Pole
Red Maple	Medium	>20 feet	Pole

<b>91</b>	6122 - Black Spruce	Sawtimber Medium	11.2	91	111-140	N/A	06/18/2012. Access to the stand is wet
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Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	75	Log/Pole	10	91
Balsam Fir	6	Pole	6	
Red Maple	5	Pole/Sapling	5	
Quaking Aspen	14	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling

<b>92</b>	6123 - Lowland Fir	Poletimber Well	20.9	78	51-80	N/A	06/21/2012. very wet.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	6	Pole/Sapling	6	
Balsam Fir	75	Pole/Sapling	5	78
Northern White Cedar	14	Pole	7	
Red Maple	5	Pole	6	

<b>93</b>	6223 - Inundated Shrub Swamp	Nonstocked	16.4		Unspecified	No	tag alder, beaver activity
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<b>94</b>	6224 - Treed Bog	Nonstocked	15.0	0	Unspecified	6112 - Lowland Aspen	Cut completed 5/18/17
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<b>95</b>	4130 - Aspen	Poletimber Well	2.0	56	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	68	Pole	9	56
Balsam Fir	10	Pole	6	
White Pine	3	Pole/Log	9	
Red Maple	10	Pole	9	
White Ash	2	Pole	7	
Paper Birch	2	Pole	6	
Red Oak	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Low	Variable	Sapling
Balsam Fir	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling
White Ash	Low	< 5 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>96</b>	6123 - Lowland Fir	Poletimber Well	5.7	78	51-80	N/A	06/21/2012. very wet.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	6	
Paper Birch	6	Pole/Sapling	6	
Balsam Fir	75	Pole/Sapling	5	78
Northern White Cedar	14	Pole	7	