



# Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54141

Entry Year 2019

Acreage: 1,946

County Presque Isle

Management Area: Alpena Lake Plain

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**Revision Date:** 2017-05-25

**Stand Examiner:** Dale Parris

**Legal Description:**

T34N R07E Sections 21, 28, and 33

T33N R07E Sections 4 N2 N2 NE4

**Identified Planning Goals:**

All harvests have been prescribed following the direction indicated in the Alpena Lake Plains Management Area (ALPMA) Plan and Timber Analysis. In all cases the unique characteristics of the individual stand was taken into consideration when writing the prescription. The timber analysis completed on the ALPMA indicated that the lowland aspen, aspen, tamarack, lowland spruce-fir, and lowland conifer covertypes be of focus for harvest for the purpose of balancing the age classes of these covertypes across the Management Area (MA). Wildlife, recreation, aesthetics, adjacent stands, and the larger landscape were considered in all management decisions.

**Soil and topography:**

The soil in the lowland drainages that filters run-off water into Schalks and Schaut Creeks is mainly Cathro muck. Cathro muck is a deep poorly drained soil that is common in drainages and depressions.

Hessel mucky flaggy loam, bedrock substratum is commonly found throughout Compartment 141 in the lower lying areas. Hessel mucky flaggy loam, bedrock substratum is a deep poorly drained soil common in drainages and depressions.

The most common soils found within the higher ground of Compartment 141 are the Summerville flaggy fine sandy loam (well drained), Bonduel loam (somewhat poorly drained), Cunard fine sandy loam (well drained), Detour flaggy loam (somewhat poorly drained), Nunica silt loam (moderately well drained), Ensign flaggy loam (somewhat poorly drained), Bowers silt loam (somewhat poorly drained), and Krakow flaggy fine sandy loam (well drained) soils.

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

Compartment 141 is bordered by more state land to the east and west. The compartment is bordered by US 23 and Thompson State Park to the North. Residential housing and recreational property sit adjacent to Compartment 141 to the south.

**Unique Natural Features:**

The Grand Lake Glade ERA extends from Compartment 140 to the east a short distance into Compartment 141 at the east-central edge of Section 33 in T34N R07E.

Wetlands within and surrounding Compartment 141 drain into Schalks and Schaut Creeks as they make their way east towards Grand Lake. Much of the compartment is characterized by shallow soils on top of a limestone bedrock glade. Where the soils are deep and well drained enough, productive timber producing forests grow.

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

The State Historic Preservation Office (SHPO) did not have any hits within Compartment 141. For further information, contact the SHPO.

**Special Management Designations or Considerations:**

A one-quarter mile wide section of the Grand Lake Glade ERA extends approximately one-eighth of a mile into Compartment 141 from Compartment 140 to the east. As of now there is to be no timber management within this ERA.

Schalks Creek and Schaut Creek flow through Compartment 141 as they wind their way towards Grand Lake to the east. All management within Compartment 141 and surrounding areas should make every effort to protect these creeks and the adjacent wetlands that drain into them. Follow the Michigan DNR and DEQ Sustainable Soil and Water Quality Practices on Forest Land Guidelines when managing land near these creeks.

## **Watershed and Fisheries Considerations:**

## **Wildlife Habitat Considerations:**

This compartment is an excellent opportunity to manage for wildlife. It is part of a multiple compartment, large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as elk and black bear. Habitat components of aspen and cedar provide food and cover for multiple species at a variety of age classes. We are working to maintain a good age rotation of aspen in this compartment as well as adjacent compartments. Species which benefit from our management include elk, white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

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

Sections 21, 28, & 33, T34N R7E & Section 4, T33N R7E, Presque Isle County

There is no metallic mineral potential in this part of the state. An active sand/gravel pit is located more than two miles to the southwest. Sand and gravel potential within the compartment appears to be limited. Bedrock is at or near the surface throughout the compartment. Limestone is quarried several miles to the east. There is good limestone potential beneath the compartment. However, the limestone formation underlying the compartment differs from the limestone that is mined at large quarries elsewhere in the county and may be less valuable. This area is located south and east of the Niagaran reef trend, and there are currently no active leases on State land. Oil and gas development and potential appears to be limited.

## **Vehicle Access:**

The central portion of Compartment 141 is accessible via a forest road that runs from Miller Road to the west to Grand Lake Hwy to the east. This trail is very rocky and would not be accessible with a conventional 2 wheel drive vehicle.

The southern portion of the compartment is accessible via a forest road from Grand Lake Hwy to the east. This forest road is rocky and is in poor condition, making it inaccessible using a conventional 2 wheel drive vehicle.

The northern edge of the compartment is accessible via US 23.

## **Survey Needs:**

A survey may be needed along the south-central edge of Section 33 in T34N R07E before timber sale prep can begin.

## **Recreational Facilities and Opportunities:**

Hunting opportunities are available in Compartment 141 for rabbit, grouse, whitetail deer, and black bear. All hunters are to adhere to the rules and guidelines set forth by the Michigan Department of Natural Resources.

## **Fire Protection:**

The Onaway and Alpena DNR offices will respond to all wildland fire incidents within Compartment 141. The Presque Isle #2 Fire Department will also respond and work with the DNR.

## **Additional Compartment Information:**

Compartment 141 has many acres of aspen that is over 80 years old and is past due for harvest. In many cases, if this aspen were left to fall out of the overstory, balsam fir and spruce would become the dominate species in the canopy.

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

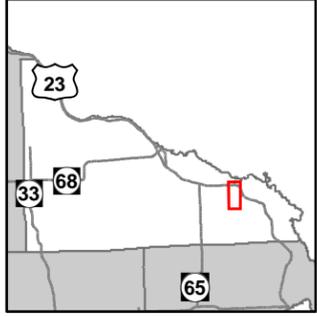
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

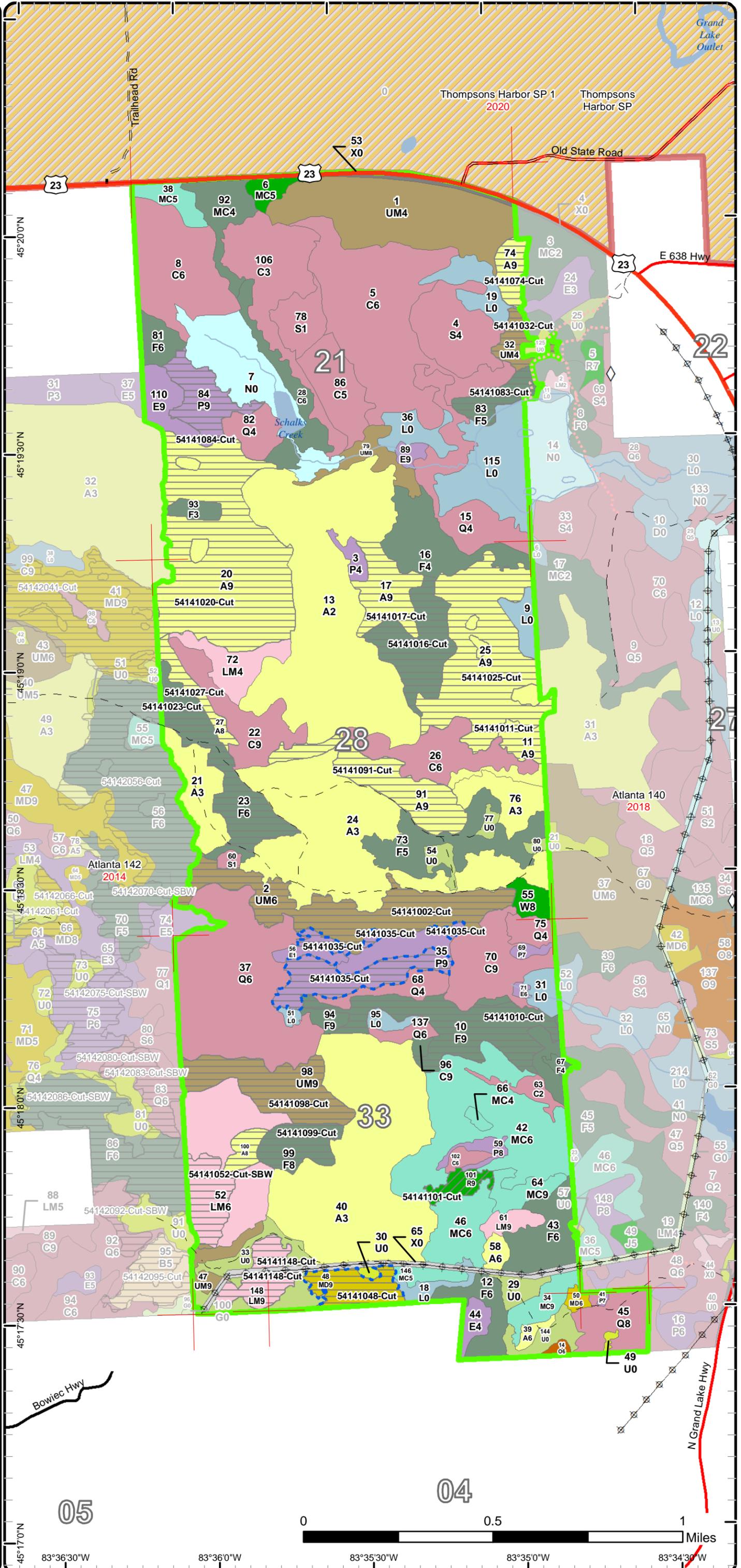
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 141  
 T34N, R07E, Sec: 21, 28, 33  
 T33N, R07E, Sec: 04  
 County: Presque Isle  
 Unit: Atlanta  
 Mgmt Area: Alpena Lake Plain  
 YOE: 2019  
 Acres: 1946.3 GIS Calculated  
 Examiner: Dale Parris  
 Map Revised: 10/4/2017  
 Map Phase: Post-Review

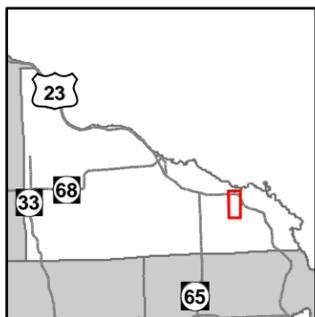


- Miris Corners
- ◊ Field Grade GPS Corners
- Counties
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- ⊕ Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

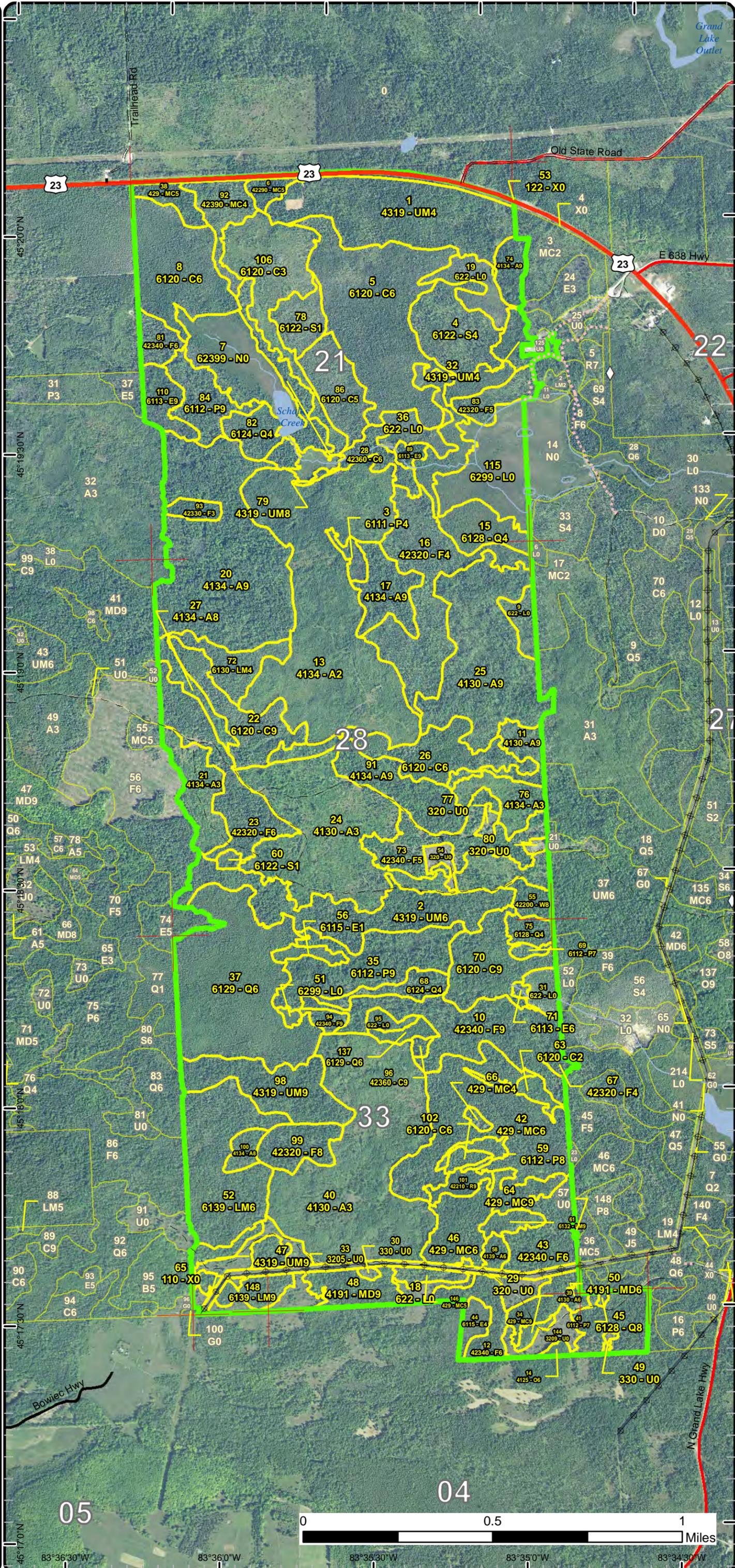


# Stand Boundary Map

Compartment: 141  
 T34N, R07E, Sec: 21, 28, 33  
 T33N, R07E, Sec: 04  
 County: Presque Isle  
 Unit: Atlanta  
 Mgmt Area: Alpena Lake Plain  
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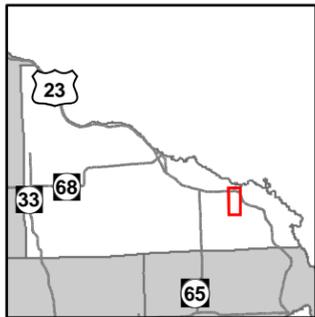


- Miris Corners
- ◆ Field Grade GPS Corners
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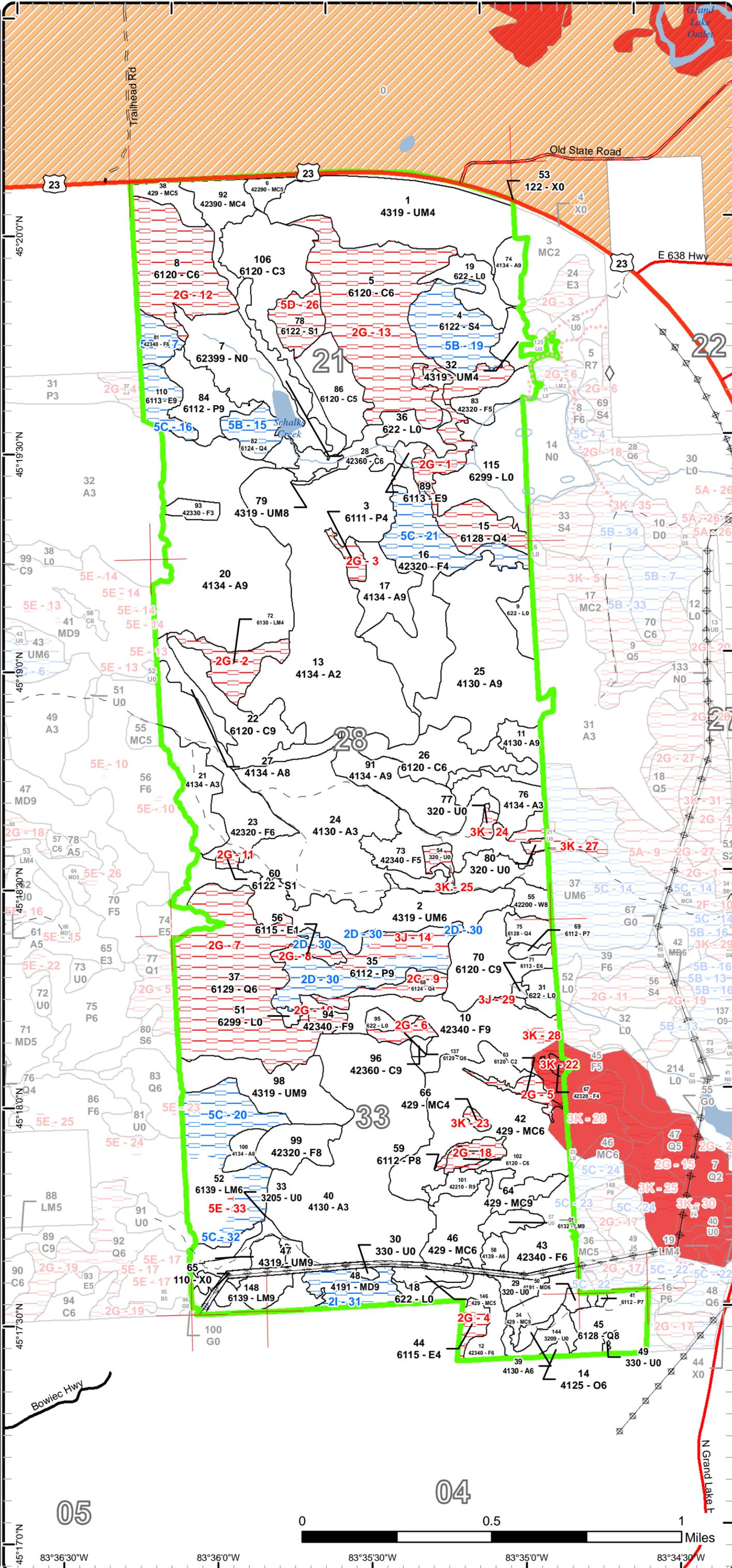


# Special Conservation Areas & Site Conditions Map

Compartment: 141  
 T34N, R07E, Sec: 21, 28, 33  
 T33N, R07E, Sec: 04  
 County: Presque Isle  
 Unit: Atlanta  
 Mgmt Area: Alpena Lake Plain  
 YOE: 2019  
 Acres: 1946.3 GIS Calculated  
 Examiner: Dale Parris  
 Map Revised: 10/4/2017  
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- Miris Corners
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- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2D: Portable Bridge Needed (Dept. bridge will be adequate)
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3K: Rare or unique landforms
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Eastern Massasauga Managed Land



# Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 141 Year of Entry 2019

Dale Parris : Examiner



## 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	120	238	2	3	0	0	0	140	95	0	0	0	0	0	0	0	598
Cedar	0	0	0	37	5	0	0	0	0	218	16	0	0	0	0	0	0	0	276
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	4	44	0	17	0	0	0	0	0	0	0	65
Lowland Conifers	0	0	0	0	27	0	0	32	0	94	0	0	0	0	0	0	0	0	153
Lowland Deciduous	0	0	0	4	0	5	4	0	0	11	0	0	0	0	0	0	0	0	24
Lowland Mixed Forest	0	0	0	0	0	0	0	0	14	53	12	0	0	0	0	0	0	0	79
Lowland Shrub	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74
Lowland Spruce/Fir	0	0	0	2	0	0	0	0	0	38	0	0	0	0	0	0	0	0	40
Marsh	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Mixed Upland Deciduous	0	0	0	0	0	0	2	0	0	13	0	0	0	0	0	0	0	0	15
Natural Mixed Pines	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	4
Oak	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
Red Pine	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Upland Conifers	0	0	0	0	7	6	18	78	14	0	0	0	0	0	0	0	0	0	123
Upland Mixed Forest	0	0	0	0	0	0	48	8	10	92	7	0	0	0	0	0	0	0	165
Upland Shrub	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Upland Spruce/Fir	0	0	0	0	4	93	8	64	0	61	0	0	0	0	0	0	0	0	230
Urban	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
White Pine	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>165</b>	<b>0</b>	<b>120</b>	<b>281</b>	<b>45</b>	<b>112</b>	<b>82</b>	<b>191</b>	<b>88</b>	<b>720</b>	<b>147</b>	<b>0</b>	<b>1950</b>						



## Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 141

Total Compartment Acres: 1,946

Commercial Harvest - 475  
 Harvests with Site Condition - 39  
 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	224	0	0	0	0	0	0	0	0	224
Lowland Aspen/Balsam Poplar	43	0	0	0	0	0	0	0	0	43
Lowland Mixed Forest	27	0	0	0	0	0	0	0	0	27
Mixed Upland Deciduous	13	0	0	0	0	0	0	0	0	13
Red Pine	0	0	0	0	0	5	0	0	0	5
Upland Mixed Forest	86	0	0	0	0	0	0	0	0	86
Upland Spruce/Fir	115	0	0	0	0	0	0	0	0	115
<b>Total</b>	<b>509</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>514</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	514	0	0	0	0	0	0	0	0	514
Next Step	0	0	0	0	0	0	509	0	0	509
<b>Total</b>	<b>514</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>509</b>	<b>0</b>	<b>0</b>	<b>1023</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	Approval Status
2	54141002-Cut	48.4	4319 - Mixed Upland Forest	Poletimber Well	59	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Clear-cut with 3-10% retention.

Specs:

Do not damage or harvest any oak or pine if present.

Protect and pine and oak regeneration.

Leave all sub-merchantable trees to facilitate water up take that will help expedite the regeneration of the future stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a medium to well stocked mix of spruce, fir, paper birch, aspen, maple, and basswood.

Other Comment:

Schaut Creek flows through the stand to the south. The fisheries division should be contacted in regards to how close the timber sale can come to this creek.

Proposed Start Date: 10/01/2018

10	54141010-Cut	38.4	42340 - Upland Spruce/Fir	Sawtimber Well	64	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut leaving 3-10% retention.

Specs:

Leave all white pine, red pine and any oak if present.

Mark all non-productive lowland pockets out of the sale.

The portion of the stand along the stream marked out of the treatment along the north edge and the portion of the stand to the east overlapping the ERA can be used as retention.

Leave all sub-merchantable trees to facilitate water up take that will help expedite the regeneration of the future stand.

Include standard grouse log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a medium to well stocked mix of aspen, spruce, balsam fir, and paper birch.

Other Comment:

The eastern portion of this harvest was removed to protect an ERA. Make sure that the treatment is not extended to the east into this ERA.

Proposed Start Date:

10/01/2018

11	54141011-Cut	6.2	4130 - Aspen	Sawtimber Well	80	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut leaving 3-10% pocket retention. Harvest in dry summer or frozen winter conditions. Leave all sub-merchantable trees to facilitate

Specs: water up take that will help expedite the regeneration of the future stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a full to medium stocked mix of aspen, balsam fir, spruce, and paper birch.

Other Comment:

Use the some of the southern portion of the stand not in the treatment as retention. The southern portion of the stand was not included in the treatment to promote age class diversity, and so that it can be used by wildlife as a travel corridor. The harvesting of cedar is acceptable because it is regenerating well in this area.

Proposed Start Date: 10/01/2018



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
16	54141016-Cut	25.9	42320 - Upland Spruce	Poletimber Poor	87	1-50	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**Prescription Clear-cut with retention.Specs:

Only harvest trees with a merchantable stick to promote future stand diversity.

Retain 3-10 percent of the stand in one or more pockets.

Focus the retention around young pockets formed by disturbance and more wet areas.

Retain any oak or pine that may be present to enhance future stand diversity.

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a low to medium stocked mix of aspen, paper birch, fir, and spruce.Other Comment:

Retaining the cedar is not necessary. Cedar is regenerating well in this compartment. Retention can be place around cedar. Make sure retention is stand representative.

Proposed Start Date: 10/01/2018

17	54141017-Cut	16.6	4134 - Aspen, Spruce/Fir	Sawtimber Well	80	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Clear-cur leaving 3-10% pocket retention.Specs:

Protect pine and oak if present to promote future stand diversity.

Include standard grouse log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a full to medium stocked mix of aspen, balsam fir, spruce, red maple, and paper birch.Other Comment:Other Comment:Proposed Start Date: 10/01/2018

20	54141020-Cut	92.0	4134 - Aspen, Spruce/Fir	Sawtimber Well	97	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Clear-cut leaving 3 -10% pocket retention.Specs:

Do not cut any white pine or oak where present to promote future stand diversity.

Include standard grouse log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a full to medium stocked mix of aspen, balsam fir, spruce, and paper birch.Other Comment:Other Comment: The harvesting of cedar is acceptable because it is regenerating well in this area.Other Comment:Proposed Start Date: 10/01/2018



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
23	54141023-Cut	27.7	42320 - Upland Spruce	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Clear-cut leaving 3-10% retention. 10% retention is already excluded from the treatment area and is at the northern and southern most portions of the stand. Protect any pine and oak present to promote future stand diversity.

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

Acceptable Regen: Acceptable regeneration is a full to medium stocked mix of aspen, balsam fir, spruce, basswood, and paper birch.

Other Comment: The retention at the north end of the stand is around small but stand representative timber. The retention at the south end of the stand will act to protect the lowland pocket to the south and will be beneficial to wildlife.

Proposed Start Date: 10/01/2018

25	54141025-Cut	62.4	4130 - Aspen	Sawtimber Well	89	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clear-cut with retention. Retain 3-10 percent of the stand in pocket(s).

Specs: Focus the retention around wet areas.

Retain any pine and oak if present to promote future stand diversity.

Include standard grouse log spec.

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

Acceptable Regen: Acceptable regeneration is a full to medium stocked mix of aspen, balsam fir, spruce, red maple, and paper birch.

Other Comment: The areas already marked out of the stand can be used as retention if set up so they are stand representative. Any additional retention should be in larger pockets or on the edge of the treatment to minimize post harvest windthrow.

Proposed Start Date: 10/01/2018

27	54141027-Cut	7.2	4134 - Aspen, Spruce/Fir	Sawtimber 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 Clear-cut leaving 3-10% retention.

Specs: Retain the one remnant red pine at the north end of the stand.

Include standard grouse log spec.

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

Acceptable Regen: Acceptable regeneration is a low to medium stocked mix of aspen, balsam fir, spruce, paper birch, white pine, and sugar maple.

Other Comment: The slope that this stand is on makes it impractical to retain individual trees.

Proposed Start Date: 10/01/2018



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
32	54141032-Cut	7.6	4319 - Mixed Upland Forest	Poletimber Poor	66	1-50	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**Prescription Clear-cut.Specs:

There is no need for retention due to the small size of the stand per retention guidelines.

Protect oak and pine if present to promote future stand diversity.

Include standard grouse log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a low to medium stocked mix of aspen, balsam fir, spruce, and paper birch.Other Comment:

Crane mats will likely be need at the north end of the stand for access to stand 74 above.

Proposed Start Date: 10/01/2018

35	54141035-Cut	26.0	6112 - Lowland Aspen	Sawtimber Well	70	81-110	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Portable Bridge Needed**Prescription Clear-cut leaving 3-10% retention around the lower areas, while making sure retention is stand representative.Specs:

Leave retention in larger pocket(s) to avoid windthrow post-harvest; preferably along the edge of the treatment.

Leave all sub-merchantable trees to facilitate water up take that will help expedite the regeneration of the future stand.

Include standard grouse log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a low to medium stocked mix of aspen, spruce, and fir.Other Comment:

Crane mats will likely be needed to facilitate access from the south.

Comment:

Only harvest trees with a merchantable stick so that there are residual trees to reduce over saturation of the soil and to encourage more timely reproduction of the stand.

Windthrow has been an issue in this area where residual timber has been left exposed to the wind in these shallow rocky soils.

Proposed Start Date: 10/01/2018

48	54141048-Cut	13.4	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	85	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition: Survey Needed**Prescription Clear-cut leaving 3-10% pocket retention.Specs:

Harvest only trees with a merchantable stick.

Do not cut any cedar or oak if present.

Include standard grouse log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)Treatments:Acceptable Regen: Acceptable regeneration is a medium to well stocked mix of aspen, spruce, balsam fir, and paper birch.Other Comment:Comment:Proposed Start Date: 10/01/2018



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
52	54141052-Cut-SBW	15.0	6139 - Mixed Lowland Forest	Poletimber Well	88	51-80	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	Field Boundary - Ready for VMS

**Habitat Cut: No****Site Condition:**

Prescription Clear-cut with retention. This is part of the spruce budworm efforts. Include SBW in the sale name. Treatable area may be less due to areas that are too wet.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a medium to well stocked stand of aspen, spruce, fir, and paper birch.

Other

Comment: A variance is being done on this stand to salvage the fir and spruce under the threat of a possible spruce bud worm infestation. Although fir and spruce only make up 44% of the stand canopy, with the high amount of mature aspen, it makes sense to harvest this stand now, while we are in here harvesting the adjacent SBW stands.

Proposed Start Date: 10/01/2018

74	54141074-Cut	8.0	4134 - Aspen, Spruce/Fir	Sawtimber Well	89	51-80	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut. Per the retention guidelines, retention is not necessary due to the small size of the stand.

Specs:

Retain oak and pine if present to promote future stand diversity.

Include standard grouse log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a medium to well stocked mix of aspen, fir, paper birch, and spruce.

Other

Comment: Crane mats will likely be need at the south end of the stand for access from stand 32 below.

Proposed Start Date: 10/01/2018

83	54141083-Cut	9.7	42320 - Upland Spruce	Poletimber Medium	88	1-50	Harvest	Clearcut	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut.

Specs:

Per the retention guidelines, retention in this harvest is not necessary if it remains less than 10 acres.

Protect oak and pine if present to promote future stand diversity.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a low to medium stocked mix of spruce, cedar, paper birch, and balsam fir.

Other

Comment: It is okay to harvest the cedar in this stand.

Proposed Start Date: 10/01/2018



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
84	54141084-Cut	16.6	6112 - Lowland Aspen	Sawtimber Well	97	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Clear-cut leaving 3 -10% pocket retention.

Specs:

Harvest only in dry summer or frozen winter.

Harvest only trees with a merchantable stick to help with water up take and to promote future stand diversity.

Include standard grouse log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a low to medium stocked mix of aspen, balsam fir, spruce, and paper birch.

Other

Leave non-merchantable trees to help with the taking up of water to promote future stand regeneration.

Comment:

Proposed Start Date: 10/01/2018

91	54141091-Cut	26.8	4134 - Aspen, Spruce/Fir	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut leaving 3-10% retention.

Specs:

Place retention in one or two larger pockets where trees are less susceptible to windthrow (preferably along the treatment edge).

Include standard grouse log spec.

Retain the trace amounts of red oak and remnant white pine.

Protect pine and oak regeneration.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a full to medium stocked mix of aspen, balsam fir, spruce, basswood, and paper birch.

OtherComment:

Proposed Start Date: 10/01/2018

98	54141098-Cut	29.8	4319 - Mixed Upland Forest	Sawtimber Well	88	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut leaving 3-10% pocket retention around lowland areas and cedar. Make sure the retention is stand representative. Protect pine and oak where present to promote future stand diversity. Include standard grouse log spec.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a medium to well stocked mix of aspen, spruce, balsam fir, paper birch, and white pine.

Other

The harvesting of cedar is acceptable because it is regenerating well in this area.

Comment:

Proposed Start Date: 10/01/2018



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
99	54141099-Cut	13.7	42320 - Upland Spruce	Sawtimber Medium	68	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Clear-cut leaving 3-10% pocket retention. Use the 2 inch spec. Harvest ASAP to avoid more windthrow.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a low to medium stocked mix of aspen, spruce, balsam fir, paper birch, and red maple.

OtherComment:

Proposed Start Date: 10/01/2018

100	54141100-Cut	5.0	4134 - Aspen, Spruce/Fir	Sawtimber Medium	88	51-80	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Clear-cut.

Specs:

Use the 2 inch spec.

Retention is not necessary due to the small size of the stand.

Include standard grouse log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration is a low to medium stocked mix of aspen, spruce, balsam fir, and paper birch.

Other

Comment: Even with the 2 inch spec there will still be plenty of residual fir remaining to take up water and aide in the regeneration of the new stand. More aspen could be included in the cut to the north but it is lower ground and the timber is more sparse. Leave this northern timber our of the sale.

Proposed Start Date: 10/01/2018

101	54141101-Cut	5.3	42210 - Natural Red Pine	Sawtimber Well	67	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Thin by harvesting 1/3 of the canopy trees.

Specs:

Thin linear rows/3rd row thin where feasible.

Designate all trees with a merchantable stick that are not red pine or white pine for removal first. Then thin the remaining red pine and white pine in the canopy. Remove more than 1/3 of the Canopy trees where necessary to provide room for the forwarder and processor to work without having to remove or damage residual trees. Retention is not needed due to the small size of the stand (per retention guidelines). Do not cut any oak where present.

Next StepTreatments:

Acceptable Regen: This is not a regeneration harvest.

OtherComment:

Proposed Start Date: 10/01/2018



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
148	54141148-Cut	12.4	6139 - Mixed Lowland Forest	Sawtimber Well	91	51-80	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Clear-cut with retention.

Specs:

Retain 3-10% of the stand in one pocket focused around a cedar pocket.

Leave all sub-merchantable trees to facilitate water up take that will help expedite the regeneration of the future stand.

Include standard grouse log spec.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration is a low to medium stocked mix of aspen, spruce, balsam fir, and paper birch.

Regen:

Other A good place for the retention pocket would be the north edge of the stand around the cedar. One retention pocket will lessen the amount of  
Comment: windthrow.

Proposed Start Date: 10/01/2018

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**Total Treatment  
Acreage Proposed: 514.1**

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 141  
Year of Entry: 2019

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions											
		With Condition	Not Available		2D	2I	5B	5C	2G	3J	3K	5D	5E			
599	599	0	0	Aspen												
276	147	0	129	Cedar					129							
2	2	0	0	Low-Density Trees												
64	19	26	19	Lowland Aspen/Balsam Poplar	26				8	11						
153	23	10	120	Lowland Conifers			10		120							
23	4	11	9	Lowland Deciduous				11	9							
79	32	33	14	Lowland Mixed Forest				33	14						1	
74	74	0	0	Lowland Shrub												
39	0	26	13	Lowland Spruce/Fir			26		2				11			
35	35	0	0	Marsh												
15	2	13	0	Mixed Upland Deciduous		13										
5	5	0	0	Natural Mixed Pines												
1	1	0	0	Oak												
5	5	0	0	Red Pine												
123	122	0	2	Upland Conifers								2				
164	164	0	0	Upland Mixed Forest				0								
36	29	0	7	Upland Shrub								7				
229	181	33	15	Upland Spruce/Fir				33	3	1	11					
19	19	0	0	Urban												
6	6	0	0	White Pine												
1,946	1,467	152	327	Total Forested Acres	26	13	36	76	284	12	19	11		1		
	75%	8%	17%	Relative Percent												

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

**Report 4 – Site Conditions**

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 141  
Year of Entry: 2019

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

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Dale Parris : Examiner

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7	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	80	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
8	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	4	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	<b>Unavailable</b>	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 141  
Year of Entry: 2019

12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	41	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	81	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Available	5B: Maintain for regeneration purposes	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 141  
Year of Entry: 2019

18	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
20	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	22	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
21	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	25	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -evaluate site on ground as candidate for bedrock glade ERA							
23	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -evaluate site on ground as candidate for bedrock glade ERA							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 141  
Year of Entry: 2019

24	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -evaluate site on ground as candidate for bedrock glade ERA							
25	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	4	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -evaluate site on ground as candidate for bedrock glade ERA							
26	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
27	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> -evaluate site on ground as candidate for bedrock glade ERA							
28	<b>Unavailable</b>	<b>3K: Rare or unique landforms</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This site condition is in place to protect an ERA.							
29	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This site condition was put in place to protect the stream to the north.							

## Report 4 – Site Conditions

Atlanta Mgt. Unit  
Dale Parris : Examiner

Compartment: 141  
Year of Entry: 2019

30	<b>Available</b>	<b>2D: Portable Bridge Needed (Dept. bridge will be adequate)</b>	26	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Crane mats will likely be needed to facilitate access from the south.							
31	<b>Available</b>	<b>2I: Survey needed</b>	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> A property line survey will likely be needed.							
32	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	11	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
33	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is long term retention for the stand to the west. Timber Sale Name: Are We There Yet? SBW; Sale No: 54-040-017.							
34	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> At the time that the stand to the south was harvested there was not enough timber present and the conditions were such that it did not warrant including this timber.							

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
<b>Comments</b>				



**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

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

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

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



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4319 - Mixed Upland Forest	Poletimber Poor	61.6	85	1-50	OPIC - FMD: STUNTED TREES AND US 23 FRONTAGE. UNDERSTORY ALSO INCLUDES RED PINE, JACK PINE, AND U: Aspen and birch are mostly 4 sticks or less. These are stunted trees.
2	4319 - Mixed Upland Forest	Poletimber Well	48.4	59	81-110	
3	6111 - Lowland Balsam Poplar	Poletimber Poor	3.8	64	1-50	This stand has high amounts of standing dead black ash.
4	6122 - Black Spruce	Poletimber Poor	26.4	83	1-50	OPIC - FMD: POOR ACCESS. SOME AREAS OF ALVAR IN WEST PART OF STAND. There is much windthrow in this stand. Succession will turn the southern two-thirds of this stand into a cedar dominated stand. As you move north the stand transitions from lowland to more upland.
5	6120 - Lowland Cedar	Poletimber Well	80.6	87	51-80	OPIC - FMD: VERY POOR QUALITY, WET, SOME AREAS ARE PROBABLY NON-COMMERCIAL. SHORT, STUNTED, WITH DEAD TOPS. A 7 inch DBH black spruce aged at 73 + 10 = 83 years of age.
6	42290 - Natural Mixed Pine	Poletimber Medium	4.5	44	51-80	(OPIC - FMD: SMALL STAND ALONG US-23, USED BY DEER HUNTERS TO CAMP.) This stand is highly variable in age. The white spruce and cedar in the understory is very dense most places.
8	6120 - Lowland Cedar	Poletimber Well	40.7	88	51-80	OPIC - FMD: WET, THICKL-F1 UNDERSTORY. TREES ARE SHORT & NOT THRIFTY. DEAD TOPS. This stand is mostly unproductive for timber and is too wet to harvest. Schaik's Creek runs through the NW portion of this stand. Larger timber of the same type skirts the southern edge of this stand.
10	42340 - Upland Spruce/Fir	Sawtimber Well	46.2	64	81-110	
11	4130 - Aspen	Sawtimber Well	10.4	80	51-80	Dead standing log/pole sized ash are present in the canopy in low amounts. The aspen have been retained too long and are degrading. The tag alder is located in the north half of the stand on lower ground.
12	42340 - Upland Spruce/Fir	Poletimber Well	12.2	44	81-110	There is a pocket of larger log sized timber at the north end of the stand.
13	4134 - Aspen, Spruce/Fir	Sapling Medium	127.9	23	Immature	There are lowland pockets throughout. Cattails are present in some low areas. Pockets dominated by spruce and balsam fir are present.
14	4125 - Black, N. Pin Oak	Poletimber Well	1.5	51	51-80	This stand has amazing oak regrowth. It looks to all have come from seed.
15	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	27.4	35	1-50	OPIC - FMD: SCHALKS CREEK-GRAND LAKE PIKE SPAWNING MARSH OPERATED BY FISHERIES DIVISION. Other various types of shrubs are present. This stand is unproductive for timber.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	42320 - Upland Spruce	Poletimber Poor	51.0	87	1-50	The black spruce is more dominate as you go north in this stand and aspen increases in density at the south end of the stand.
17	4134 - Aspen, Spruce/Fir	Sawtimber Well	16.6	80	51-80	The aspen in this stand are ready for harvest. The aspen will begin falling out of the canopy and balsam fir will dominate the future stand if it is not harvested.
20	4134 - Aspen, Spruce/Fir	Sawtimber Well	94.8	97	81-110	This stand is dominated by aspen that are over mature and degrading in quality.
21	4134 - Aspen, Spruce/Fir	Sapling Well	18.2	13	Immature	Trees with at least an 8 foot stick and 4 inches in diameter were harvested in timber sale number 54-034-00-01; Sale Name: Big Nowhere; TCR Date 5/11/2004. Oak, cedar, red pine, white pine, regeneration, dogwood, thornapple, and juneberry were not harvested and protected. Scattered 4-8" sugar maple are present. Various unidentified shrubs are present in the understory.
22	6120 - Lowland Cedar	Sawtimber Well	22.3	87	171-200	Cedar is regenerating along the edges of this stand and into the adjacent stands. Pockets dominated by black spruce are present.
23	42320 - Upland Spruce	Poletimber Well	30.9	49	51-80	OPIC - FMD: OI Stand Year Origin was 1964. Pockets of heavy spruce and fir windthrow are present. In pockets this is a log stand, but overall it is pole timber. Trace sugar maple and jack pine are present in the canopy. This stand is composed of generally low quality timber.
24	4130 - Aspen	Sapling Well	88.9	13	Immature	Trees with at least an 8 foot stick and 4 inches in diameter were harvested in timber sale number 54-034-00-01; Sale Name: Big Nowhere; TCR Date 5/11/2004. Oak, cedar, red pine, white pine, regeneration, dogwood, thornapple, and juneberry were not harvested and protected.
25	4130 - Aspen	Sawtimber Well	66.2	89	81-110	This aspen is overdue for harvest and is degrading in quality.
26	6120 - Lowland Cedar	Poletimber Well	24.4	87	111-140	This cedar stand appears to be healthy overall. The size of the cedar varies from pole to log sized based on where you are within the stand.
27	4134 - Aspen, Spruce/Fir	Sawtimber Medium	7.2	80	51-80	This stand is on a somewhat gradual slope down to the cedar to the west.
28	42360 - Upland Cedar	Poletimber Well	15.8	96	171-200	The basal area is highly variable throughout. The basal area is highest along the center section of the stand where cedar dominates. The narrow central portion of the stand bordering the marsh to the west is dominated by cedar with a red pine and white pine component. Most of the red pine is along the edge of the marsh to the west. The tamarack is located in the north and south ends of the stand.
32	4319 - Mixed Upland Forest	Poletimber Poor	7.6	66	1-50	The aspen are poor quality and are seeing very little growth.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	429 - Mixed Upland Conifers	Sawtimber Well	9.1	64	81-110	OPIC - FMD: A FEW CLONES OF ASPEN ALONG SOUTH EDGE. WET, ROCKY SOIL. The red pine are more dense towards the north end. An 8 inch balsam fir cored at 54 + 10 = 64 years old. This is likely a good age for the red pine also.
35	6112 - Lowland Aspen	Sawtimber Well	36.7	70	81-110	There is a creek/run-off running from west to east in the north central portion of the stand. This drainage originates in the cedar/black spruce lowland area to the west. The aspen are over mature and many have fallen to the ground. The run-off should be protected during a harvest.
37	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	79.7	83	51-80	A 6" DBH black spruce aged at 65 plus 10 at chest height for an age of 75. Areas dominated by cedar and areas dominated black spruce are swirled throughout this stand. A 6" DBH cedar cored at 73 at chest height plus 10 for an age of 83. The cedar and spruce are likely stunted due to the highly saturated soil.
38	429 - Mixed Upland Conifers	Poletimber Medium	7.0	36	1-50	This stand has a high level of species diversity in the canopy.
39	4130 - Aspen	Poletimber Well	2.2	37	1-50	This is a health young aspen stand.
40	4130 - Aspen	Sapling Well	110.3	27	1-50	OPIC - FMD: OI Stand Year Origin was 1990. Oak was retained in the last harvest.
41	6112 - Lowland Aspen	Sawtimber Poor	0.6	74	1-50	The canopy would be about 80% full if the pole to sapling sized ash were not dead.
42	429 - Mixed Upland Conifers	Poletimber Well	61.6	64	51-80	This stand is mostly mixed conifer with pockets heavy aspen happening in 1-3 acre chunks sporadically. The occasional pocket with mature oak is present. A 8 inch DBH white spruce cored at 4 + 10 = 64.
43	42340 - Upland Spruce/Fir	Poletimber Well	19.8	48	51-80	There is a sizable cedar pocket in the south central portion of the stand.
44	6115 - Lowland Ash	Poletimber Poor	5.0	49	1-50	This is basically a lowland stand of dead and dying black ash. if all the ash were alive it would be a full canopy. This stand is too wet/ harvest.
45	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	17.8	67	51-80	This stand is almost a 50-50 mix of lowland and upland. Vanes and pockets of cedar are present. The canopy trees are highly variable in age as is the basal area. The west half of the stand is mostly upland and the east half of the stand is mostly lowland.
46	429 - Mixed Upland Conifers	Poletimber Well	17.7	50	51-80	The average age of two 8 inch DBH aspen was 50 years. An 8 inch DBH white spruce aged at 50 years. The white ash are alive but showing the effects of EAB. There are trees that were obviously retained during the last harvest that are older than 50 years. The red pine are growing nicely in this stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4319 - Mixed Upland Forest	Sawtimber Well	6.7	94	51-80	The southern half of the stand is dominated by oak. The oak in the canopy lessons in density as you head northwest in the stand.
48	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	13.4	85	81-110	Some of the white ash is hanging on but most of it is dead due to EAB. The age of the aspen may be slightly off due to the difficulty seeing the growth rings.
50	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	2.1	53	51-80	
52	6139 - Mixed Lowland Forest	Poletimber Well	48.4	88	51-80	This stand has scattered pockets of cedar. The canopy composition of species varies highly throughout.
55	42200 - Natural White Pine	Sawtimber Medium	5.7	73	51-80	About 10% of the canopy would be log sized white ash were it not killed by EAB.
56	6115 - Lowland Ash	Sapling Poor	3.7	26	Immature	This stand is basically a lowland pocket dominated by sapling black ash. A little more than half the black ash saplings are dead. A 2" black ash aged at 23 at DBH plus 3 for an age of 26.
58	4139 - Aspen, Mixed Deciduous	Poletimber Well	3.4	40	51-80	This is a really good but rocky soil that wants to grow hardwood. The aspen look exceptionally well and are growing fast.
59	6112 - Lowland Aspen	Sawtimber Medium	4.1	73	51-80	In the winter this stand was holding water throughout.
60	6122 - Black Spruce	Sapling Poor	1.7	24	1-50	This is lowland swamp conifer that is too wet to harvest. This land is not conducive for growing harvestable timber. A 1" DBH black spruce aged 14 years at DBH plus 10 to chest height giving it an estimated age of 24 years. There are standing dead sapling/pole sized black ash present in low amounts.
61	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	5.0	87	51-80	
63	6120 - Lowland Cedar	Sapling Medium	5.0	33	Immature	The southern edge of this stand is high to lowland shrub. The size of the saplings vary throughout the stand. The trees are stunted due to the high water table. This is unproductive timber land.
64	429 - Mixed Upland Conifers	Sawtimber Well	7.6	67	51-80	The red pine is spaced out evenly throughout the stand.
66	429 - Mixed Upland Conifers	Poletimber Poor	1.5	44	1-50	OPIC - FMD: SCA-ALVAR, ERA. This is a unique opening that should be protected. A 9 inch DBH white spruce cored at 34 +10 = 44.
67	42320 - Upland Spruce	Poletimber Poor	1.8	47	1-50	OPIC - FMD: SCA-ALVAR, ERA.??? This is a unique and open stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
68	6124 - Lowland Spruce-Fir	Poletimber Poor	8.7	61	1-50	This stand is basically a lower ground area with lots of windthrow. As a result of these wind events the average age of the stand varies throughout. A 7 in. DBH white spruce cored at 51+10=61 years of age. Most of the windthrow was predominately aspen that was likely the same age as the aspen in the stands to the north and south. The result of these wind events is a stand where the previously suppressed spruce and fir are now the major component of a sparse overstory.
69	6112 - Lowland Aspen	Sawtimber Poor	2.0	70	1-50	The stand age/aspen age is based on the age of the aspen stand to the west. The aspen is deteriorating and lessening in quality.
70	6120 - Lowland Cedar	Sawtimber Well	26.4	87	171-200	A 9 inch DBH cedar cored at 77+10=87 years of age. This agrees with the last inventory age. Schaut Creek flows through this stand.
71	6113 - Lowland Maple	Poletimber Well	1.0	57	51-80	This is an isolated pocket dominated by pole to log sized red maple. This is a red maple flat in an area where red maple are mostly not present in nearby stands.
72	6130 - Fir, Aspen, Maple	Poletimber Poor	13.7	79	1-50	This stand is too wet to harvest.
73	42340 - Upland Spruce/Fir	Poletimber Medium	28.3	47	51-80	This is a health stand with highly varying canopy density.
74	4134 - Aspen, Spruce/Fir	Sawtimber Well	8.0	89	51-80	The aspen in this stand are overdue for harvest. Special attention needs to be given to the drainage at the south end of the stand during management to protect its integrity.
75	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	5.7	67	1-50	This stand is somewhat of a continuation of the stand to the north. The white pine lessen in density as you go farther south in the stand. White spruce of log/pole size and medium quality are evenly spaced throughout this lowland stand.
76	4134 - Aspen, Spruce/Fir	Sapling Well	13.0	13	Immature	Trees with at least an 8 foot stick and 4 inches in diameter were harvested in timber sale number 54-034-00-01; Sale Name: Big Nowhere; TCR Date 5/11/2004. Oak, cedar, red pine, white pine, regeneration, dogwood, thornapple, and juneberry were not harvested and protected.
78	6122 - Black Spruce	Sapling Poor	11.4	80	1-50	Half of the black spruce sapling and pole timber is dead. The soil has a high water table/moisture content and seasonally floods. This stand is unproductive for timber. About 50 to 60 % of the forest floor is growing cedar seedlings. A 3.5 inch DBH black spruce aged at approx. 65 + 15 = 80.
79	4319 - Mixed Upland Forest	Sawtimber Medium	9.7	77	51-80	A 10 inch DBH cedar aged at 62+15 = 77 years. Cedar are dominate in the center and northern portions of the stand. Schalk's Creek runs through this stand.
81	42340 - Upland Spruce/Fir	Poletimber Well	7.6	52	51-80	OPIC - FMD: DIFFICULT ACCESS ACROSS MARSH OR COMPARTMENT 142 STAND 27; A 4 inch DBH white spruce Core at 42 + 10 = 52 years of age.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
82	6124 - Lowland Spruce-Fir	Poletimber Poor	10.0	87	1-50	A 3 inch DBH black spruce aged at 31 + 10 = 41 years. Scattered mature trees are present throughout the stand. (2 inch black spruce 34 years; 2 inch cedar at 22 years) This is really an uneven aged stand. Since it was difficult to pick a dominate canopy species and average size tree for that species, 87 years of age is really just an average age for the larger trees in the stand. The canopy is borderline 25% coverage. This could be considered a sapling stand of which the average age would be around 34 years. The understory is a variety of stunted coniferous species with varying ages.
83	42320 - Upland Spruce	Poletimber Medium	9.7	88	1-50	OPIC - FMD: POOR ACCESS.SOME AREAS OF ALVAR IN WEST PART OF STAND. A 6 inch DBH black spruce aged at 78+10= 88. This stand has much windthrow. Very few log sized trees are present.
84	6112 - Lowland Aspen	Sawtimber Well	16.6	97	51-80	The aspen are in the beginning stages of windthrow.
86	6120 - Lowland Cedar	Poletimber Medium	19.0	87	51-80	OPIC - FMD: VERY POOR QUALITY, WET, SOME AREAS ARE PROBABLY NON-COMMERCIAL. SHORT, STUNTED, WITH DEAD TOPS. This stand is mostly stunted trees in poor health with partially dead tops.
89	6113 - Lowland Maple	Sawtimber Well	2.7	56	51-80	OPIC - FMD: ROCKY SOIL ALONG EDGE: This is a maple flat. There is about 5% pole to sapling Sized dead ash in the canopy. Schalk's Creek runs through the stand.
91	4134 - Aspen, Spruce/Fir	Sawtimber Well	26.8	80	81-110	The aspen in this stand are old, rotting, and of poor quality. There is low amounts of dead standing pole and log sized white ash in the stand.
92	42390 - Mixed Non-Pine Upland Conifers	Poletimber Poor	14.0	72	1-50	OPIC - FMD: VERY UNTHRIFTY, TOPS ARE DEAD. OCASSIONAL RED AND WHITE PINE POLE. Canopy species percent composition vary highly throughout. If left to natural forest succession this stand would become cedar dominated.
93	42330 - Upland Fir	Sapling Well	4.2	37	1-50	This stand resulted from a wind event or harvest.
94	42340 - Upland Spruce/Fir	Sawtimber Well	3.3	64	81-110	This stand is too wet to harvest. Harvesting this stand would do more damage than good. Retain this stand and let forest succession take place.
96	42360 - Upland Cedar	Sawtimber Well	1.5	88	171-200	This is a small pocket of higher ground log cedar adjacent to some pole sized low grown cedar which is to the NW.
98	4319 - Mixed Upland Forest	Sawtimber Well	29.8	88	51-80	This stand has many windthrown trees. As such this stand should be harvested. There is a trace amount of large white pine in the stand.
99	42320 - Upland Spruce	Sawtimber Medium	13.7	68	51-80	This is a spruce-fir dominated stand with much windthrow. This stand should be harvested before the rest of the timber is on the ground. A majority of the stand Canopy is already on the ground.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
100	4134 - Aspen, Spruce/Fir	Sawtimber Medium	5.0	88	51-80	The aspen are old and moderately spaced out with a mostly continuous fir understory. The aspen are of poor quality and should be harvested before they fall to the ground.
101	42210 - Natural Red Pine	Sawtimber Well	5.3	67	171-200	A 10 inch DBH red pine cored at 61+6=67 years of age. Basal area measurements taken (200,180, 170, 100,210).
102	6120 - Lowland Cedar	Poletimber Well	2.9	88	141-170	Due to time constraints and the small size of the stand the age of the cedar was estimated based on the age of the cedar in nearby stands.
106	6120 - Lowland Cedar	Sapling Well	37.2	26	Immature	Scattered pole/log sized cedar, spruce, aspen, and pine are present through out the stand. There is not enough pole or log sized timber in the canopy to be a pole or log sized stand.
110	6113 - Lowland Maple	Sawtimber Well	10.6	81	81-110	OPIC - FMD: WET. This is a Seasonally flooded maple flat. There is a full forest floor covering of unidentified shrubs. Dead ash would have made up 10-15% of the canopy. The red maple are of average health and medium-low quality with some scattered die-off present.
137	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	3.9	88	1-50	OPIC - FMD: OLD DATA LOOKS GOOD. HEAD WATERS OF SCHOUT CREEK. This stand is too wet to harvest. Coring a 5 inch DBH cedar gave an age of 91 years, so the previous inventory age of 88 was used since the small rings were hard to count.
146	429 - Mixed Upland Conifers	Poletimber Medium	4.4	49	1-50	OPIC - FMD: DUKES MIXTURE. SHORT,LOW QUALITY TIMBER.WET AREAS.SHALLOW ROCKY, CLAY SOILS. The west half of the stand is more open (25-50% Canopy) and it has a higher density of dead ash in the canopy. Overall there is approximately 7% dead ash in the canopy and maybe 2% is alive. There is not enough dead ash for considering a salvage harvest.
148	6139 - Mixed Lowland Forest	Sawtimber Well	12.4	91	51-80	OPIC - FMD: WET



Stand	Cover Type	Acres	Managed Site	General Comments:
7	62399 - Marsh (OI)	35.0	No	OPIC - FMD: SCHALKS CREEK
9	622 - Lowland Shrub	6.6	No	This stand is basically tag alder with scattered mature aspen and balsam fir saplings.
18	622 - Lowland Shrub	4.4	No	OPIC - FMD: SCA-ALVAR, ERA: Log sized dead ash make-up about 8% of the stand.
19	622 - Lowland Shrub	11.7	No	There is a pretty consistent canopy of stunted and dead, sapling to pole sized black ash. There is a scattering of cedar and spruce saplings with lowland shrub and grasses consistent throughout.
29	320 - Upland Shrub	4.8	No	OPIC - FMD: SCA-ALVAR, ERA: This stand has scattered low density trees with an ever spacing of upland shrub/juniper.
30	330 - Low-Density Trees	0.9	No	OPIC - FMD: SCA-ALVAR, ERA
31	622 - Lowland Shrub	5.9	No	Schaut Creek flows through this lowland shrub.
33	3205 - Mixed Upland Shrub	16.8	No	OPIC - FMD: SCA-ALVAR,ERA.
36	622 - Lowland Shrub	8.5	No	This stand has a consistent canopy of dead sapling to pole sized black ash. There is a light scattering of balsam fir, cedar, and spruce saplings.
49	330 - Low-Density Trees	0.8	No	
51	6299 - Lowland Shrub (OI)	1.3	No	This stand is comprised of various types of lowland shrubs with a scattering of sapling sized stunted cedar.
53	122 - Road/Parking Lot	7.2	No	OPIC - FMD: M-23
54	320 - Upland Shrub	3.5	No	This stand has very rocky soil and scattered stunted trees.
65	110 - Low Intensity Urban	11.4	No	OPIC - FMD: ELECTRIC TRANSMISSION LINE R.O.W.SCA-ALVAR,ERA.
77	320 - Upland Shrub	1.9	No	
80	320 - Upland Shrub	1.4	No	Scattered hard and softwood trees are present.
95	622 - Lowland Shrub	3.2	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
115	6299 - Lowland Shrub (OI)	32.3	No	OPIC - FMD: SCHALKS CREEK-GRAND LAKE PIKE SPAWNING MARSH OPERATED BY FISHERIES DIVISION.SCA: This stand has a consistent layer of grasses and lowland shrub throughout.
144	3209 - Upland Shrub (OI)	7.4	No	OPIC - FMD: SCA-ALVAR, ERA