



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54107

Entry Year 2023

Acreage: 1,136

County Alpena

Management Area: Alpena Lake Plain

Revision Date: 2021-03-26

Stand Examiner: Doug Tyran

Legal Description:

T31 N, R09E, SECS.09, 10, 15, 16 & 22

Identified Planning Goals:

Compartment consists of lowland covered by aspen, oak and conifer. Timber harvesting may occur to facilitate healthy forests. MNFI have identified 6 ERA's in the area and the El Cajon Bay ERA Management plan is part of this review to protect a majority of this compartment.

Soil and topography:

The major soils are Granby sand and Rifle peat. There are Summerville stony loam and Alpena cobbly loam.

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

La Farge Corporation and North Shore Development are large land owners in this area. Development is increasing along the Lake Huron shore line. Prospect Park, plotted in the early 1900's, has been reverting back to state ownership, making management difficult. Land use is varied throughout the area, including residences, hunting camps and corporate lands. Illegal dumping is common in this area, monitoring is needed to keep all trails closed.

Unique Natural Features:

As identified by MNFI: Northern Fen, Coastal Fen, Limestone Cliff, Emergent Marsh, Great Lakes Marsh, Rich Conifer Swamp.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Continue to monitor and gate illegal ORV trails & follow above described management plan.

Watershed and Fisheries Considerations:

Lake Huron frontage along with several streams.

Wildlife Habitat Considerations:

(See compartment header notes.)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. An esker appears to be in this area. Glacial drift thickness varies between 200 and 400 feet. There is approximately 110 feet of local relief within the compartment. Beneath the Glacial Drift is the Devonian Traverse Group. The Traverse is quarried for Limestone/cement products. The nearest gravel pit is on private land within the compartment, in Section 9. The potential in the compartment is considered good. This area has had no drilling for oil and gas. The Antrim Shale was eroded off in this area. There are no leases for oil & gas in the compartment. The State owns additional mineral rights in the compartment.

Vehicle Access:

Roads as shown on compartment map and road closures

Survey Needs:

None identified at this time.

Recreational Facilities and Opportunities:

There are no existing recreation facilities within this compartment, deer hunting, bird hunting, camping and hiking are very popular.

Fire Protection:

Protected by the Atlanta FMU, fire suppression should only occur on the outside of the ERA's, not within.

Additional Compartment Information:

The following reports from the Inventory are attached:

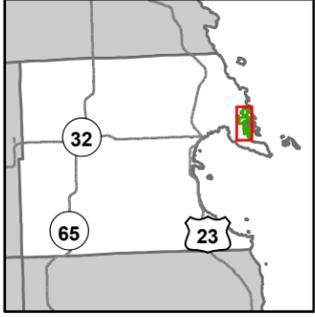
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

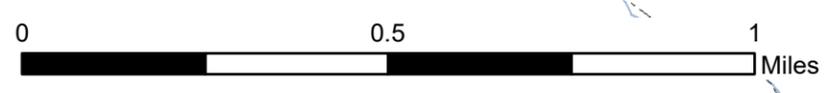
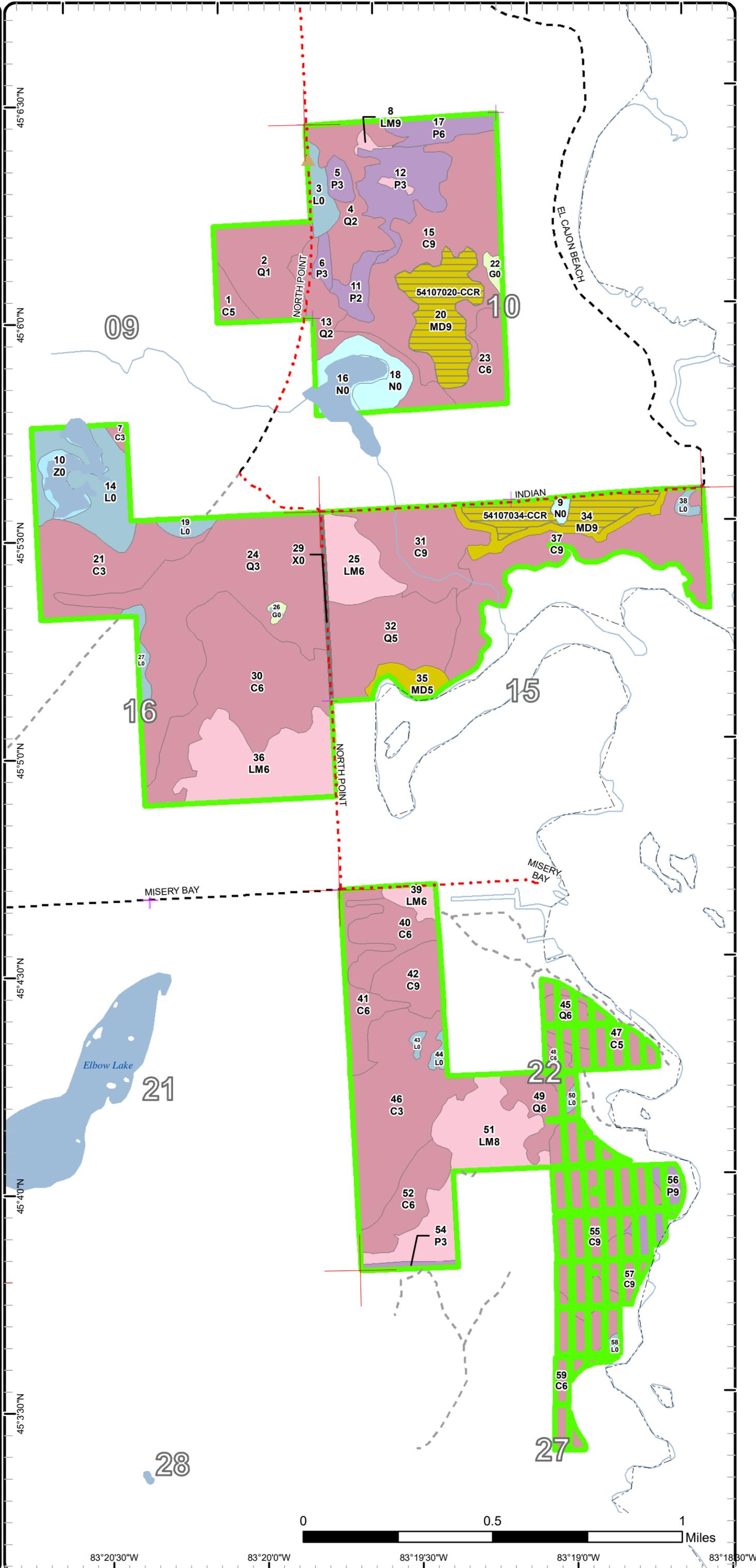
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 107
 T31N, R09E, Sec. 9, 10, 15, 16, 22, 27
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
 YOE: 2023
 Acres: 1135.9 GIS Calculated
 Examiner: Doug Tyran
 Map Revised: 10/7/2021
 Map Phase: Post-Review



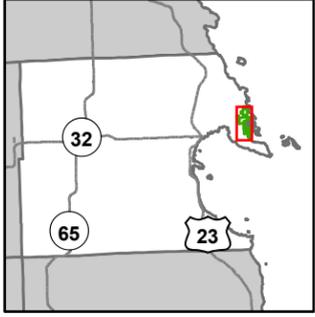
- Miris Corners
- + Remonumented Section Corners
- - - Counties
- - - Federal / State - Dirt / Gravel Road
- . - . County - Gravel Road
- - - Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- ▲ Berms
- Compartment Boundary
- Clearcut (w/Reserves)
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



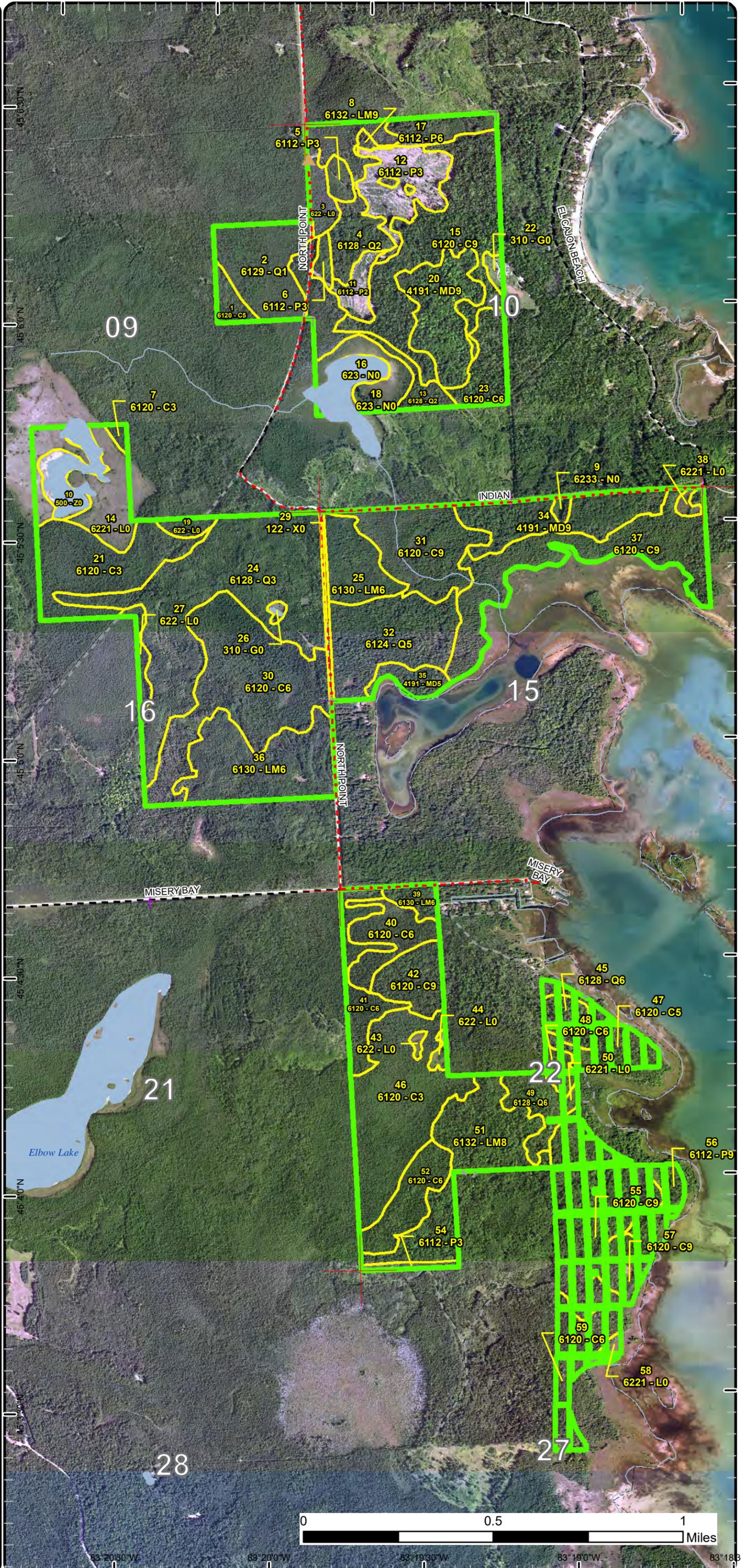
83°20'30"W 83°20'0"W 83°19'30"W 83°19'0"W 83°18'30"W

Stand Boundary Map

Compartment: 107
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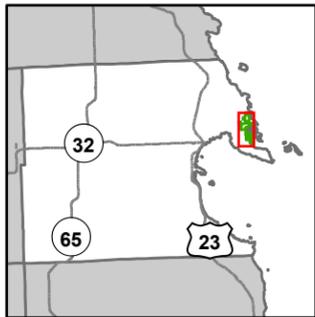
- Miris Corners
- + Remonumented Section Corners
- Counties
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
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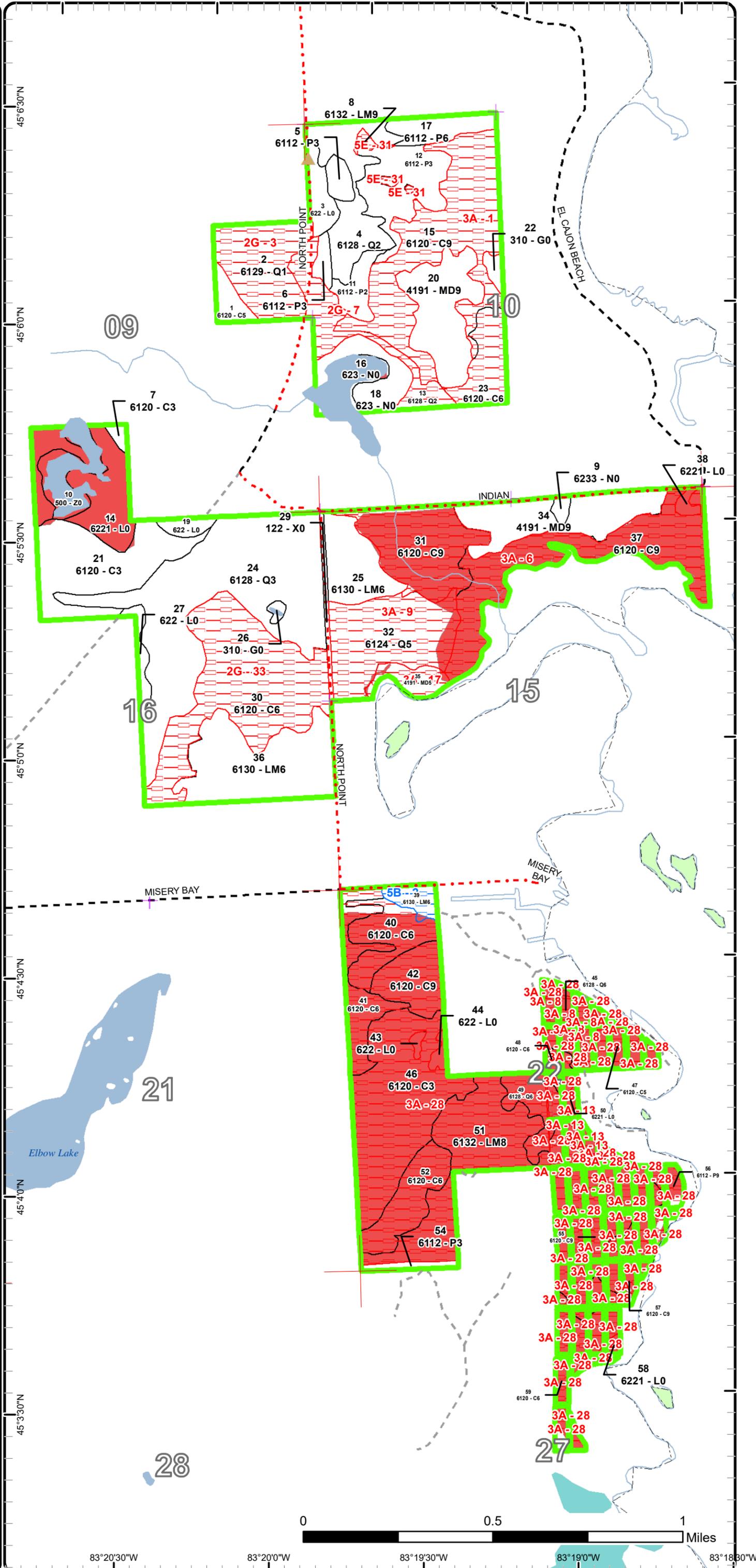
83°20'30"W 83°20'0"W 83°19'30"W 83°19'0"W 83°18'30"W

Special Conservation Areas

Compartment: 107
 T31N, R09E, Sec. 9, 10, 15, 16, 22, 27
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
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- Miris Corners
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- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Berms
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Coastal Environmental Areas
- Great Lakes Islands



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
Cedar	0	0	0	0	0	0	0	0	0	0	20	183	22	0	72	23	190	16	526
Herbaceous Openland	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Aspen/Balsam Poplar	0	33	0	0	3	19	0	0	0	0	0	0	10	0	0	0	0	0	65
Lowland Conifers	0	0	0	0	0	152	44	0	8	0	32	0	0	0	0	13	0	0	249
Lowland Mixed Forest	0	0	0	0	0	47	20	6	2	0	0	0	0	0	0	0	0	48	123
Lowland Shrub	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Marsh	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	63	8	0	0	0	0	0	0	71
Urban	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Water	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	103	33	0	0	3	218	64	6	10	0	115	191	32	0	72	36	190	64	1137



Report 2 – Treatment Summary

Atlanta Mgt. Unit
Year of Entry: 2023

Acres of Harvest

Compartment 107
Total Compartment Acres: 1,136

Commercial Harvest - 52
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
Mixed Upland Deciduous	53	0	0	0	0	0	0	0	0	53
Total	53	0	0	0	0	0	0	0	0	53

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	53	0	0	0	0	0	0	0	0	53
Next Step	0	0	0	0	0	0	53	0	0	53
Total	53	0	0	0	0	0	53	0	0	105



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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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Proposed Treatments:

20	54107020-CCR	31.2	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	96	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, cut all trees 2" and up, except hemlock.. Leave 3-10% area retention in 2-3 pockets focused on oak for mast production and large diameter white pine.</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 Regen:</u> Oak, Maple, Aspen, Fir, Spruce, Pine & Cedar</p> <p><u>Other Comment:</u> Wood products will need to be hauled/skidded through the cedar stand to the west (into the aspen stand) or access granted from private land owners to the east. Tree's removed for a skid trail are not included timber and should be used as corduroy.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
34	54107034-CCR	21.3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No
<p><u>Prescription</u> Final harvest stand, cut all trees 2" and up, except hemlock. Leave 3-10% area retention around hemlock pocket, try to include oak for mass production.</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 Regen:</u> Oak, Maple, Aspen, Fir, Spruce, & Cedar</p> <p><u>Other Comment:</u> Actual treatment boundary should be very close to planned boundary. 100 ft is the recommended buffer for timber harvests near wetland ERAs. Mapped using the buffer tool.</p> <p>The wet meadow should not be used as a landing location, as it has sensitive soils.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											

Total Treatment Acreage Proposed: 52.5

Report 4 – Site Conditions

Atlanta Mgt. Unit
Doug Tyran : Examiner

Compartment: 107
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions				
		With Condition			5B	2G	3A	5E	
525	50	0		475	Cedar		73	401	
4	4	0		0	Herbaceous Openland				
64	54	0		10	Lowland Aspen/Balsam Poplar			10	0
248	131	0		117	Lowland Conifers		53	64	
124	67	6		51	Lowland Mixed Forest	6	0	48	2
53	53	0		0	Lowland Shrub				
28	28	0		0	Marsh				
71	63	0		8	Mixed Upland Deciduous			8	
4	4	0		0	Urban			0	
14	14	0		0	Water				
1,136	470	6		660	Total Forested Acres	6	127	531	2
	41%	1%		58%	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	3A: Conservation Values incompatible with harvest at this time	81	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Doug Tyran : Examiner

Compartment: 107
Year of Entry: 2023

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3A: Conservation Values incompatible with harvest at this time	92	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area is apart of the El Cajon Bay Ecological Reference Area. MNFI has identified the following: Rich Conifer Swamp, Coastal Fen, Great Lakes Marsh, and a Limestone Cliff							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3A: Conservation Values incompatible with harvest at this time	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Doug Tyran : Examiner

Compartment: 107
Year of Entry: 2023

13	Unavailable	3A: Conservation Values incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
28	Unavailable	3A: Conservation Values incompatible with harvest at this time	295	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area is a part of the El Cajon Bay Ecological Reference Area. MNFI has identified the following: A Rich Conifer Swamp, Coastal Fen & a Great Lakes Marsh							
31	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	74	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.
HCVA	Coastal Environmental Areas	The public designation process is defined by Part 323, Shorelands Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). This is an inactive program with no new areas currently under consideration by the DEQ.
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		
1	6120 - Lowland Cedar	Poletimber Medium	5.9	112		N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		25	Sapling/Pole	4		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar		75	Pole/Sapling	5	112				
2	6129 - Mixed Coniferous Lowland Forest	Sapling Poor	31.8	90		N/A	Areas of standing water.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch		17	Sapling	2		Balsam Fir	Medium	Variable	Sapling
Black Spruce		22	Pole	6		Tag Alder	High	Variable	Tall Shrub
Northern White Cedar		37	Sapling/Pole	4	90				
Tamarack		24	Pole	6					
3	622 - Lowland Shrub	Nonstocked	8.0			No			
4	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	27.0	45		N/A	-slow growing		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		30	Sapling/Pole	4	45	Tag Alder	High	Variable	Tall Shrub
Black Spruce		15	Pole	7					
Northern White Cedar		30	Sapling	3					
Balsam Fir		25	Sapling/Pole	4					
5	6112 - Lowland Aspen	Sapling Well	4.4	40		N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Sapling/Pole	3	40	Balsam Fir	High	Variable	Sapling
Balsam Fir		10	Sapling/Pole	3					
6	6112 - Lowland Aspen	Sapling Well	3.3	40		N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		70	Sapling/Pole	3	40	Balsam Fir	Medium	Variable	Sapling
Balsam Fir		25	Sapling	3		Northern White Cedar	Medium	Variable	Sapling
Northern White Cedar		5	Sapling	3					
7	6120 - Lowland Cedar	Sapling Well	1.8	100		N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Northern White Cedar		83	Sapling	4	100				
Black Spruce		7	Pole	5					
Balsam Fir		5	Pole	5					
Tamarack		5	Pole	9					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
8	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	2.4	70	111-140	N/A	This is retention from the surrounding / southern clear cut. All white pine left & area retention				
		Canopy Species	% Cover	Size Class	DBH	Age		Sub-Canopy Species	Density	Avg. Height	Size
		Quaking Aspen	40	Log	11	70		Wild Red Raspberry	Medium	5 - 10 feet	Tall Shrub
		White Pine	8	Log	15	90		Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
		Balsam Fir	26	Pole	8						
		Northern White Cedar	21	Pole	9						
		Paper Birch	5	Pole	8						
9	6233 - Wet Meadow	Nonstocked	1.8	0	Unspecified	No					
10	500 - Water	Nonstocked	14.4		Unspecified	No					
11	6112 - Lowland Aspen	Sapling Medium	7.8	6	Immature	N/A	-This is retention from the adjacent clearcut in 2015				
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
		Quaking Aspen	70	Sapling	1	6	Wild Red Raspberry	Medium	5 - 10 feet	Tall Shrub	
		Red Maple	2	Sapling	1		Sedges	Medium	Unspecified	Non-Wood	
		Balsam Fir	5	Sapling	1						
		Paper Birch	5	Sapling	1						
		Balsam Poplar	18	Sapling	1						
12	6112 - Lowland Aspen	Sapling Well	25.1	6	1-50	N/A	This stand was clearcut in 205, area retention was left & all white pine				
		Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
		Quaking Aspen	92	Sapling	1	6	Wild Red Raspberry	Medium	5 - 10 feet	Tall Shrub	
		Red Maple	1	Sapling	1		Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub	
		White Pine	2	Log	15	90					
		Balsam Fir	5	Sapling	1						
13	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	21.4	40		N/A					
		Canopy Species	% Cover	Size Class	DBH	Age					
		Quaking Aspen	20	Pole/Log	8						
		Balsam Fir	45	Sapling	2	40					
		Northern White Cedar	35	Sapling/Pole	4						
14	6221 - Fen	Nonstocked	29.1			No					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15 6120 - Lowland Cedar Sawtimber Well 65.4 100 141-170 N/A -lots of deer tracks

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Log	16		Balsam Fir	Medium	Variable	Sapling
Balsam Fir	10	Pole	6		Quaking Aspen	Low	< 5 feet	Sapling
Northern White Cedar	62	Log/Pole	11	100				
White Pine	7	Log	14	90				
Black Spruce	5	Log	15					
Red Oak	1	Pole	8					
Paper Birch	5	Pole	7					

16 623 - Emergent Wetland Nonstocked 11.3 No

17 6112 - Lowland Aspen Poletimber Well 10.9 45 51-80 N/A -aspen to NW is significantly older, treated as an inclusion

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	78	Pole/Sapling	6	45	Balsam Fir	Medium	Variable	Sapling
Balsam Fir	5	Pole	6		Northern White Cedar	Medium	Variable	Sapling
Northern White Cedar	10	Pole	9					
Paper Birch	5	Pole	6					
Red Maple	2	Log	11					

18 623 - Emergent Wetland Nonstocked 15.0 No

19 622 - Lowland Shrub Nonstocked 3.9 No

20 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 31.2 96 81-110 N/A -very mixed stand, predominantly red oak
-unique stand very diverse species mix

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	12	Log/Pole	10		Balsam Fir	High	Variable	Sapling
White Pine	2	Log	16	90				
Red Oak	45	Log/Pole	11	96				
Paper Birch	5	Pole	7					
Quaking Aspen	15	Log/Pole	11					
Balsam Fir	7	Pole	7					
Black Spruce	3	Log	12					
Northern White Cedar	10	Log/Pole	11					
Hemlock	1	XLog	25					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
21	6120 - Lowland Cedar	Sapling Well	42.2	100		N/A	-smaller diameter cedar compared to other cedar stands -very dense -hard to walk through -pockets of larger log cedar close to aspen peninsula of higher ground																																									
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22	310 - Herbaceous Openland	Nonstocked	2.4			No																																										
23	6120 - Lowland Cedar	Poletimber Well	15.8	129	81-110	N/A	-canopy is more broken up compared to other cedar stands																																									
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24	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	104.0	46	1-50	N/A																																										
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25	6130 - Fir, Aspen, Maple	Poletimber Well	20.2	51	51-80	N/A																																										
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26	310 - Herbaceous Openland	Nonstocked	1.2			No																																										
27	622 - Lowland Shrub	Nonstocked	4.6			No																																										
29	122 - Road/Parking Lot	Nonstocked	4.4			No																																										



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
30	6120 - Lowland Cedar	Poletimber Well	73.6	104	141-170	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Balsam Fir	10	Pole/Sapling	6		Balsam Fir	High	Variable	Sapling
	Black Spruce	20	Pole/Sapling	6		Northern White Cedar	High	Variable	Sapling
	Northern White Cedar	55	Pole/Sapling	7	104				
	Tamarack	10	Pole/Sapling	7					
	Quaking Aspen	5	Log	11					
31	6120 - Lowland Cedar	Sawtimber Well	36.6	135	141-170	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Paper Birch	4	Pole	7		Balsam Fir	Medium	Variable	Sapling
	Quaking Aspen	10	Log	12		Tag Alder	Low	5 - 10 feet	Tall Shrub
	Balsam Fir	7	Pole	7					
	Northern White Cedar	75	Log/Pole	10	135				
	Black Spruce	4	Pole	9					
32	6124 - Lowland Spruce-Fir	Poletimber Medium	43.7	50	51-80	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Quaking Aspen	6	Pole	9		Northern White Cedar	Low	Variable	Sapling
	Balsam Fir	40	Pole	5	50	Canadian Yew	Low	5 - 10 feet	Tall Shrub
	Black Spruce	10	Log	11		Balsam Fir	High	Variable	Sapling
	White Pine	4	Log	15					
	Paper Birch	3	Pole	8					
	Northern White Cedar	37	Pole	8	120				
34	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	31.6	91	81-110	N/A			
	Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
	Sugar Maple	2	Log	12		Red Maple	Low	Variable	Sapling
	Red Maple	7	Pole	8		Balsam Fir	Medium	Variable	Sapling
	Red Oak	40	Log/XLog	13	91	Serviceberry (Juneberry)	Low	Variable	Sapling
	Paper Birch	7	Pole/Log	8		White Spruce	Trace	< 5 feet	Sapling
	Quaking Aspen	10	Log	11					
	Balsam Fir	8	Pole	7					
	Northern White Cedar	14	Log/Pole	10					
	Hemlock	5	Log	14					
	White Spruce	7	Log	13					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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35 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 7.9 105 51-80 N/A -fairly mixed stand-oak dominant with smaller sugar maple

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Pole/Sapling	6	
Red Oak	35	Pole/Log	8	105
Paper Birch	6	Pole	6	
Quaking Aspen	12	Pole	6	
Bigtooth Aspen	5	Log	10	
Balsam Fir	20	Pole/Sapling	6	
Northern White Cedar	7	Log/Pole	10	110

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Red Osier Dogwood	Medium	5 - 10 feet	Tall Shrub
Ironwood	Low	< 5 feet	Sapling
Red Pine	Trace	< 5 feet	Sapling

36 6130 - Fir, Aspen, Maple Poletimber Well 46.6 45 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	42	Pole	6	45
Balsam Fir	34	Pole/Sapling	5	
Paper Birch	15	Sapling	4	
White Spruce	4	Pole	8	
Red Oak	2	Sapling	4	
Northern White Cedar	3	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Sapling
Green Ash	Medium	Variable	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Northern White Cedar	Low	Variable	Sapling

37 6120 - Lowland Cedar Sawtimber Well 55.7 157 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	8	
Balsam Fir	5	Pole	6	
Black Spruce	5	Pole	7	
Northern White Cedar	80	Log	11	157

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling

38 6221 - Fen Nonstocked 1.9 Unspecified No

39 6130 - Fir, Aspen, Maple Poletimber Well 6.0 65 81-110 N/A -Quad trail from east. More of a Q-type along road

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	11	
Paper Birch	10	Log/Pole	11	
Quaking Aspen	35	Log	12	90
Balsam Fir	40	Pole/Sapling	7	65
Northern White Cedar	5	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	Low	10 - 20 feet	Sapling



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40	6120 - Lowland Cedar	Poletimber Well	18.6	130	141-170	N/A																																																																
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41	6120 - Lowland Cedar	Poletimber Well	18.9	145	141-170	N/A	-better drainage than stand 46 -more species diversity																																																															
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46	6120 - Lowland Cedar	Sapling Well	62.8	150	1-50	N/A	-old OI comment- SLOW GROWING, WET, NON PRODUCTIVE FOREST LAND. Trail in stand mostly under water.																																																					
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47	6120 - Lowland Cedar	Poletimber Medium	16.0	110	1-50	N/A	-poor limestone soil -cedar showing decline and half crowns of live/dead foliage-balsam in subcanopy also showing stress due to soil-much lower density than other cedar stands																																																					
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48	6120 - Lowland Cedar	Poletimber Well	4.3	148	51-80	N/A	-cedar showing decline and half crowns of live/dead foliage -balsam in subcanopy also showing stress due to poor soil -much lower density than other cedar stands																																																					
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49	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	12.8	140	111-140	N/A	-stand difficult to walk through- a lot of down qa logs with balsam fir coming up -poor limestone soil -cedar showing decline and half crowns of live/dead foliage -balsam in subcanopy also showing stress due to soil -much lower density than other cedar stands																																																					
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50	6221 - Fen	Nonstocked	1.3			No																																																						



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51	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	48.4	145	81-110	N/A	-old OI comment- HIGHLY VARIABLE, SMALL TIMBER IN POCKETS THROUGHOUT. Timber to south on private recently cut (1999). -good representation of a multistoried stand in places -fair amount of logs on ground creating canopy breaks and regen of mostly balsam fir																																																									
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52	6120 - Lowland Cedar	Poletimber Well	19.5	95	141-170	N/A	-small pocket of larger cedar than surrounding cedar to west																																																									
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54	6112 - Lowland Aspen	Sapling Well	2.9	34	Immature	N/A																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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57 6120 - Lowland Cedar Sawtimber Well 8.7 157 171-200 N/A -similar to cedar stand to west-less qa and slightly less dense than west, decided to keep separate

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Log	10	
Quaking Aspen	5	Log	12	
Northern White Cedar	90	Log/Pole	11	157

58 6221 - Fen Nonstocked 1.4 No

59 6120 - Lowland Cedar Poletimber Well 18.1 153 111-140 N/A -less dense and smaller size class than cedar to west

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	5	Pole	7		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	11	Log/Pole	10		Northern White Cedar	Low	Variable	Sapling
Northern White Cedar	84	Pole/Log	9	153				