



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45184

Entry Year 2018

Acreage: 1,567

County Mackinac

Management Area: Milakokia Lake

Revision Date: 2016-07-29

Stand Examiner: Cory Luoto

Legal Description:

T44N, R12W Sec. 5, 6, 20, 21, 27, 28, 29, and 30 – Portage Township

Identified Planning Goals:

This compartment is broken into two portions. The northern portion is located in the far northwest corner of Mackinac County and along the western shore of Big Manistique Lake. The southern portion is southwest of Curtis and borders the western shore of South Manistique Lake and the Mackinac -Schoolcraft county line. Cedar is the primary timber component of the compartment, while aspen/spruce/fir mix (both upland and lowland), northern hardwoods, and some grassy openings make up the rest of the compartment. Good age class diversity exists within the aspen component. Aspen cutting has taken place every decade since the mid-1960's. Continued cutting of the mature to over-mature stands is recommended to assure adequate regeneration, and continued age class diversity. Some of the hardwood stands are in need of management to promote health and growth. A large cedar stands along Ketola Road is going to be strip cut to promote some cedar regeneration in the area. Access problems exist within large parts of the compartment, because of both private lands and large wet areas.

Soil and topography:

Lowlands and swamps consist primarily of Markey and Carbondale mucks, with Spot-Finch and Markey-Spot-Finch complexes. Uplands are generally Amadon-Rock outcrop complex, Menominee loamy sand, Wallace sand, and Paquin sand. Level lowlands to rolling uplands.

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

This compartment is primarily surrounded by private land. The western and northern edges of the northern portion are bordered by state land that is managed by the Shingleton Management Unit.

Unique Natural Features:

The compartment has the potential for numerous rare and endangered fauna and flora. Eagles, ospreys and great blue herons are known to nest in the area.

Archeological, Historical, and Cultural Features:

None found.

Special Management Designations or Considerations:

Best Management Practices will be used in all timber sale activities. There is a snowmobile trail that runs through the southern portion of the compartment. There will be no seasonal cutting restrictions when cutting the cedar strips in the northern part of the compartment.

Watershed and Fisheries Considerations:

JMB: This compartment contains Little Mud Lake which drains into Big Manistique Lake in the northern section of this compartment. Little Mud Lake and the drainage are not actively managed for fisheries purposes. Therefore, the concern for this section is prevention of sediment inputs into the waterway. The Southern section of this compartment includes Wolf Creek-Shoepac Creek system which drains into South Manistique Lake. This is a warmwater system not actively managed for fisheries purposes.

Wildlife Habitat Considerations:

This compartment is part of the Milakokia Lake Management Area. Featured wildlife species for the Management Area include American woodcock, blackburnian warbler, red-shouldered hawk, and white-tailed deer. The majority of the compartment is located around Shoepac Lake west of South Manistique Lake. A smaller portion is located about 3 miles to the northwest, and is west of Manistique Lake. Cedar swamp is a common type here. Northern hardwoods and aspen are other common types, although are much less prevalent than cedar. Hemlock is a component of northern hardwoods and some other stands. Hemlock will be retained and promoted in any treated stands to benefit species like blackburnian

warblers, red-shouldered hawks, and deer. Diversity in some northern hardwood stands will be encouraged by creating additional canopy layers, protecting snags, promoting cavity trees, avoiding vernal ponds, and maintaining tree species diversity within hardwood stands. Aspen stands were treated in previous years to promote early successional habitat for woodcock, ruffed grouse, deer, and other wildlife. Most cedar will be retained, which will benefit a variety of wildlife ranging from deer to migratory songbirds.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 50 and 100 feet. The Silurian Burnt Bluff Group subcrops below the glacial drift. The Burnt Bluff is quarried for stone/limestone six miles to the south. Gravel pits are located in Sections 17 and 18 and potential is good on the uplands. There is no current economic oil and gas production in the UP.

Vehicle Access:

The northern portion of the compartment is accessed from Ketola Road, a county gravel road and Needle Point Road a state gravel road. The eastern part of the southern portion is accessed from Long Point Road, a tar and chip county road and Sherman Road, which is a state and private gravel road. The western part of the southern portion is accessed from McGahn Road which is a county gravel road, and the Bryan Grade which is a state gravel road. The central area of the southern portion can be reached by taking Shoepac Lake Road, an unimproved county road.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

The compartment has the South Manistique Lake State Forest Campground on the west side of the lake. The campground is a maintained rustic campground with a boat launch and was updated to ADA standards along with other renovations. The southern portion of the compartment has a snowmobile trail that is maintained and groomed. The compartment as a whole provides boating, fishing, hunting, trapping, wildlife viewing and hiking opportunities.

Fire Protection:

This is a low fire danger area.

Additional Compartment Information:

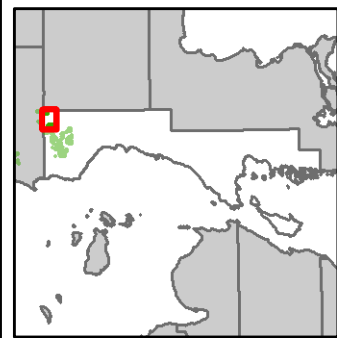
The following reports from the Inventory are attached:

- 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:

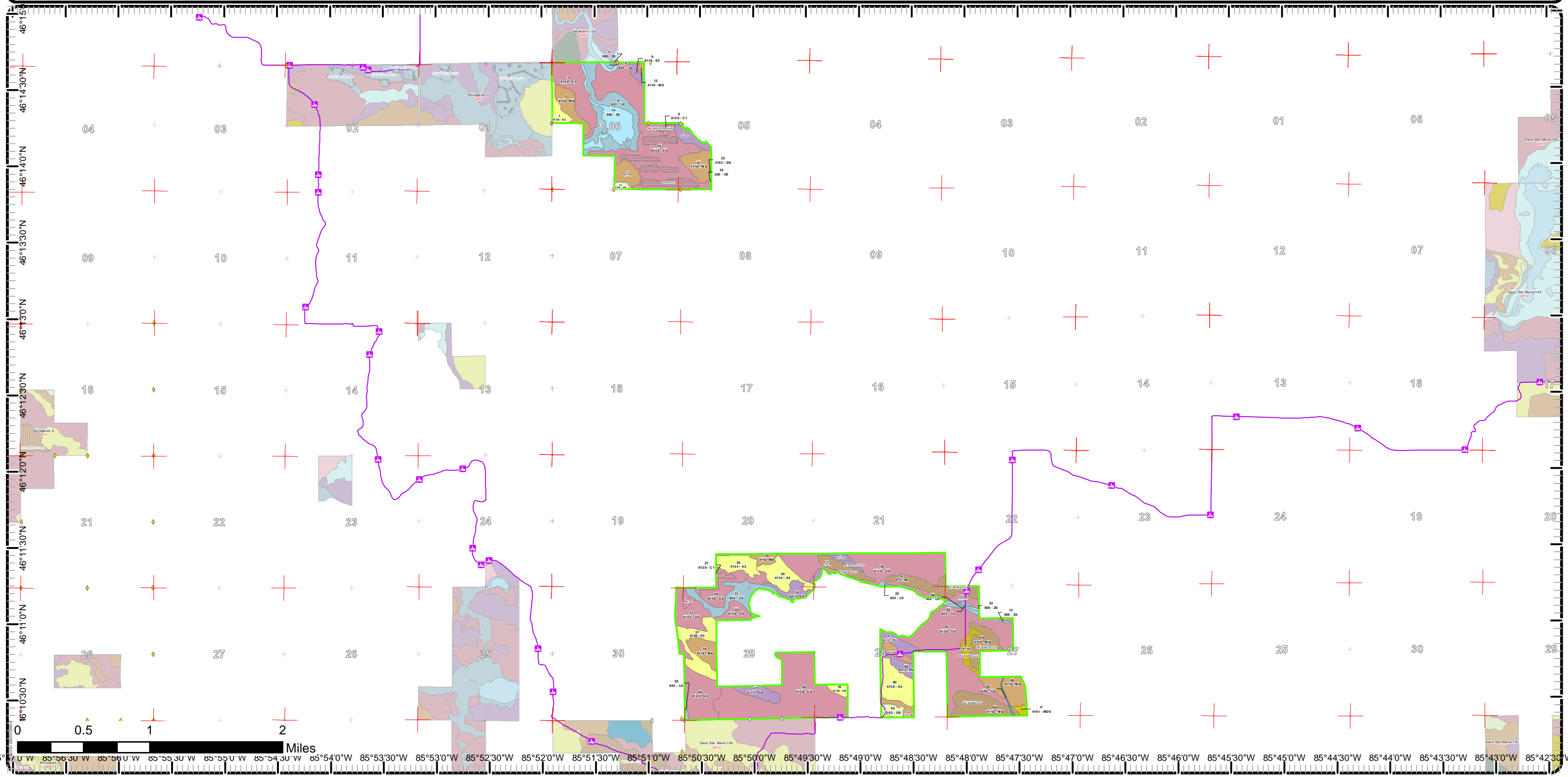
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



Compartment: 184
 T44N,R12W,
 Sec: 05, 06, 20, 21, 27-30
 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Milakokia Lake
 YOE: 2018
 Acres: 1,567 GIS Calculated
 Examiner: Cory Luoto
 Map Revised: 12/6/2016
 Map Phase: Post Review

- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Snowmobile Trails
- Designated Snowmobile Trails
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland

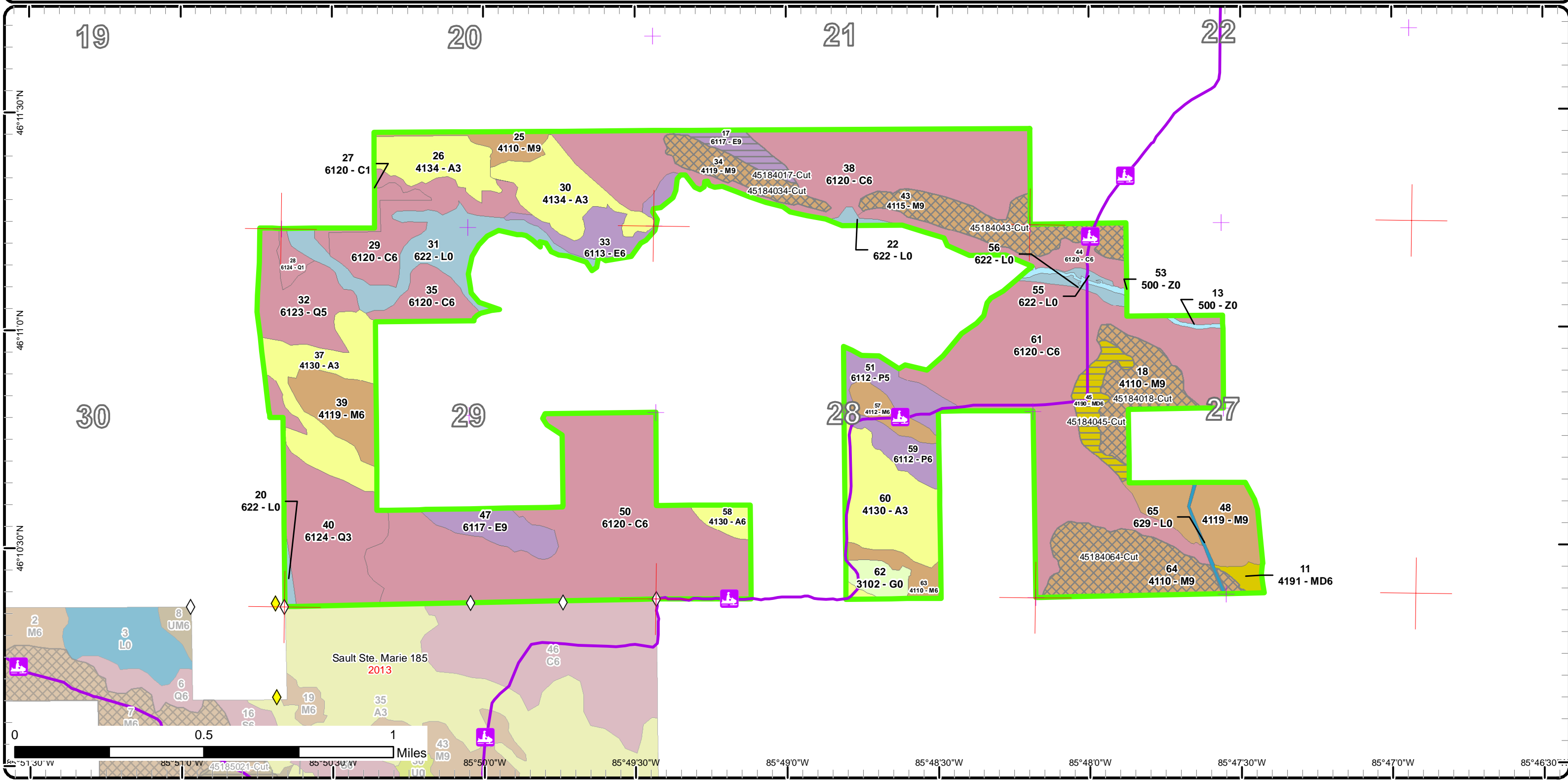


Cover Type & Treatments Map

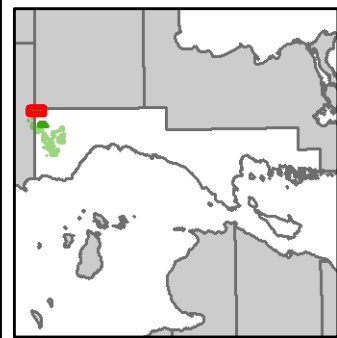


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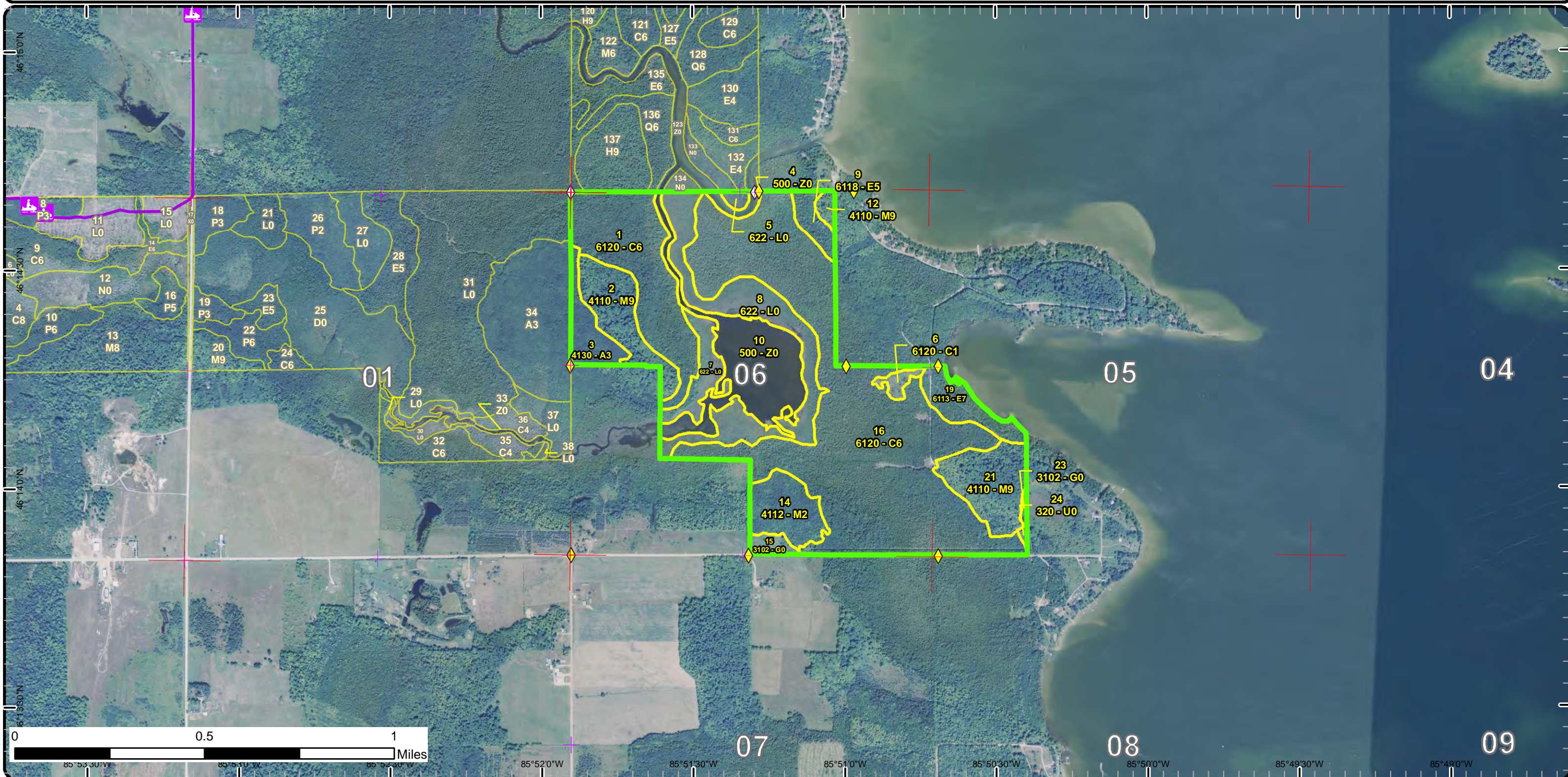


Stand Boundary Map



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- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- 🛷 Snowmobile Trails
- 🛷 Designated Snowmobile Trails
- ▭ Compartment Boundary
- ▭ Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen Types
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- 612 - Lowland Coniferous Forest
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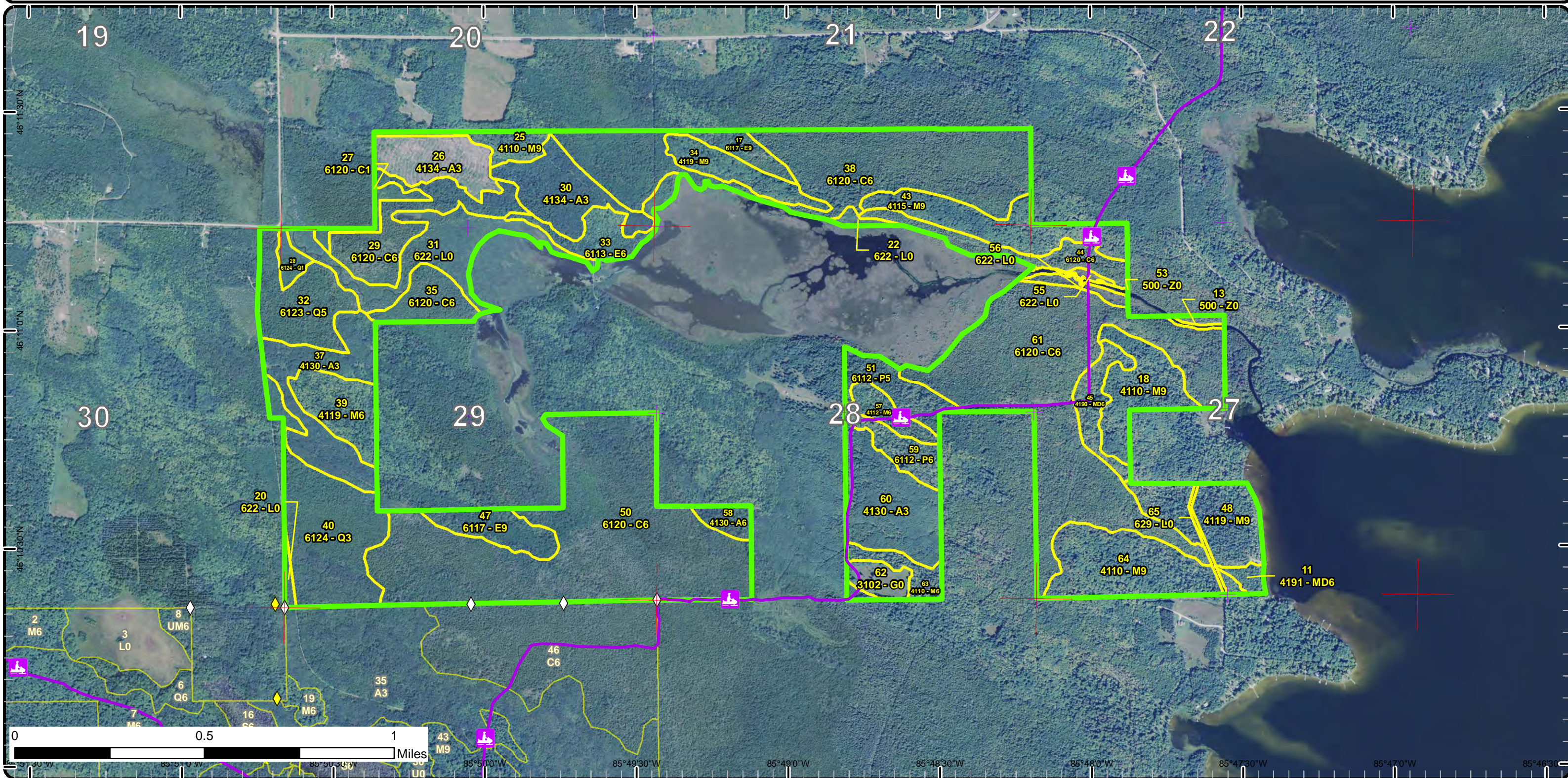


Stand Boundary Map



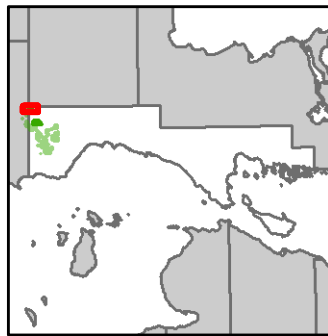
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- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- 🚙 Snowmobile Trails
- Designated Snowmobile Trails
- ▭ Compartment Boundary
- ▭ Stand Boundaries
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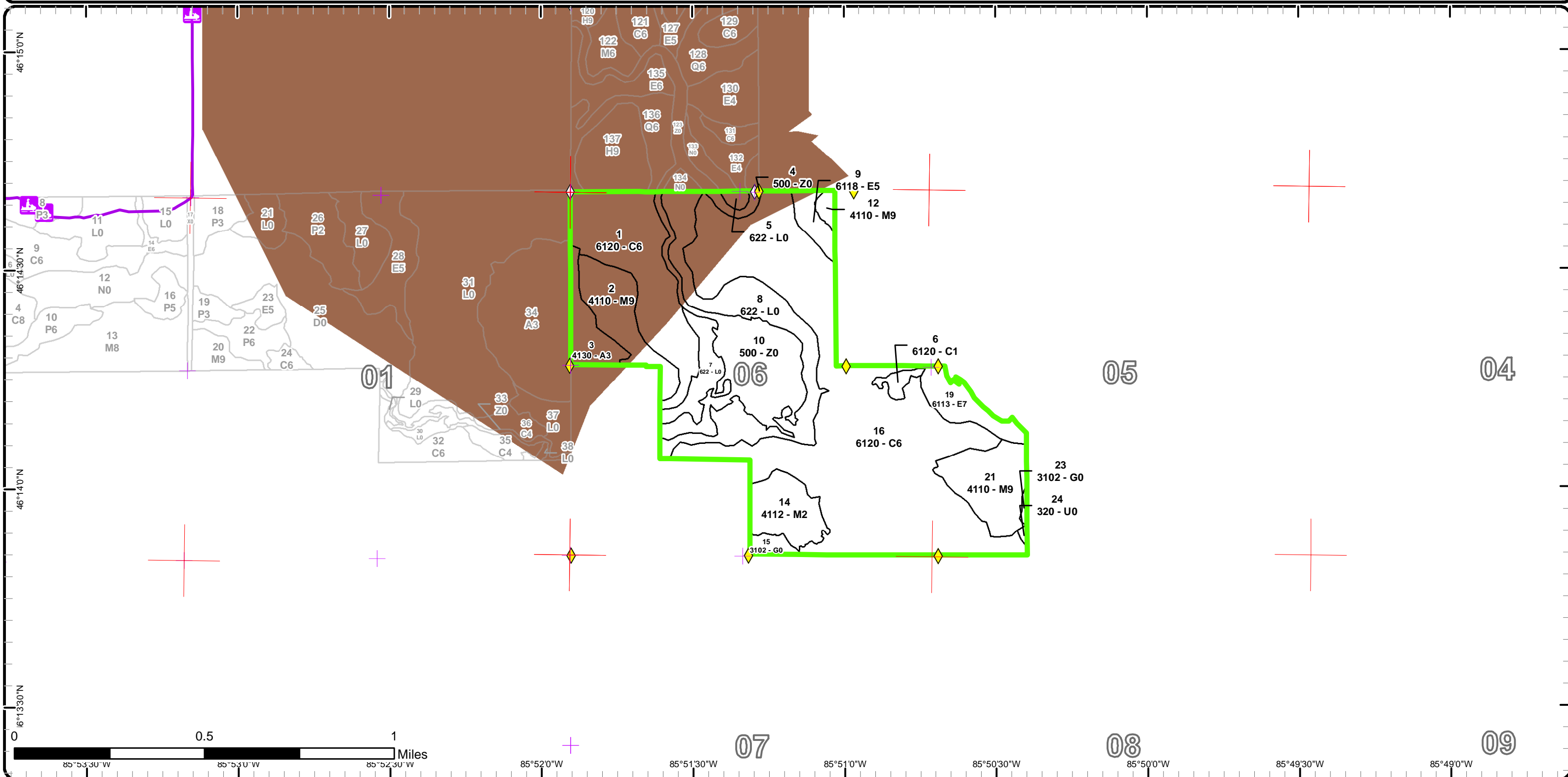


Special Conservation Areas & Site Conditions Map

Compartment: 184
 T44N,R12W,
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 County: Mackinac
 Unit: Sault Ste. Marie
 Mgmt Area: Milakokia Lake
 YOE: 2018
 Acres: 1,567 GIS Calculated
 Examiner: Cory Luoto
 Map Revised: 12/6/2016
 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- ▣ Snowmobile Trails
- Designated Snowmobile Trails
- ▭ Compartment Boundary
- Stand Boundaries
- Deer Winter Range

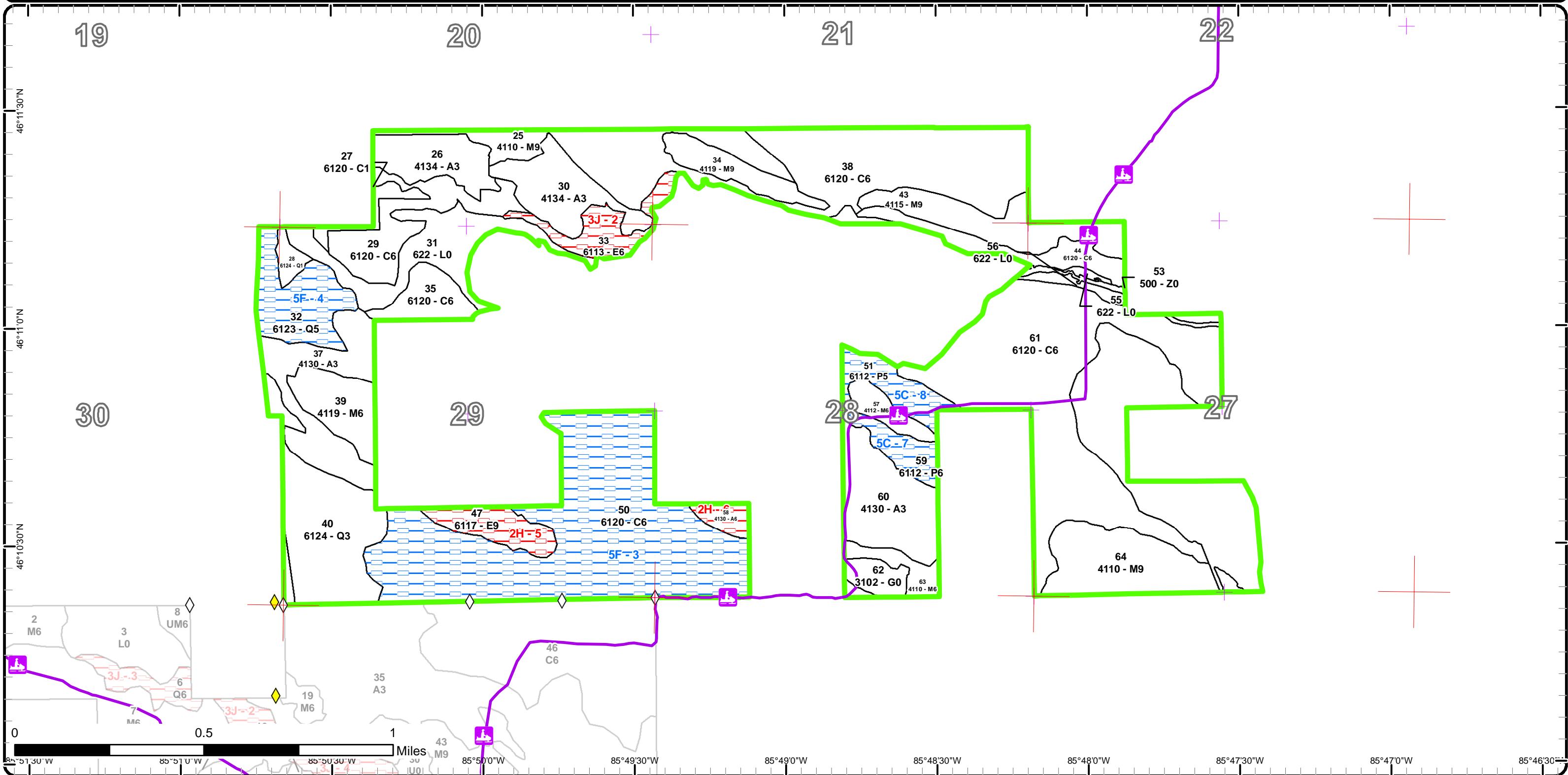


Special Conservation Areas & Site Conditions Map

Compartment: 184
 T44N,R12W,
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 Map Revised: 12/6/2016
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- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- 🚙 Snowmobile Trails
- Designated Snowmobile Trails
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	24	54	68	0	0	0	0	7	0	0	0	0	0	0	0	0	0	152
Cedar	0	0	6	3	0	0	0	0	0	316	223	19	193	0	0	0	0	0	760
Herbaceous Openland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	0	0	0	0	0	16	13	0	0	0	0	0	0	0	0	0	0	0	29
Lowland Conifers	0	0	5	0	57	0	0	31	0	0	0	0	0	0	0	0	0	0	93
Lowland Deciduous	0	0	0	0	0	0	0	39	9	17	0	0	0	0	0	0	0	0	64
Lowland Shrub	111	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111
Mixed Upland Deciduous	0	0	0	0	0	4	0	14	0	0	0	0	0	0	0	0	0	0	18
Northern Hardwood	0	0	0	19	0	0	3	76	137	42	0	0	0	0	0	0	0	0	276
Upland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Water	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Total	175	24	65	90	57	20	16	31	129	153	375	223	19	193	0	0	0	0	1567



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2018

Compartment 184
Total Compartment Acres: 1,567

Acres of Harvest

Commercial Harvest - 184
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
Cedar	37	0	0	0	0	0	0	0	0	37
Lowland Deciduous	9	0	0	0	0	0	0	0	0	9
Mixed Upland Deciduous	14	0	0	0	0	0	0	0	0	14
Northern Hardwood	0	123	0	0	0	0	0	0	0	123
Total	61	123	0	0	0	0	0	0	0	184

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	184	0	0	0	0	5	0	0	0	189
Next Step	0	0	0	0	0	184	0	0	0	184
Total	184	0	0	0	0	189	0	0	0	372



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	45184016-Cut	37.1	6120 - Lowland Cedar	Poletimber Well	125	141-170	Harvest	Clearcut with Retention	6120 - Lowland Cedar	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre).
Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Cedar, aspen, maple, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

16	45184016-Monitor	1.4	6120 - Lowland Cedar	Poletimber Well	125	141-170	Monitoring	Natural Regen (Intermediate)	6120 - Lowland Cedar	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription

Specs:

Next Step

Treatments:

Acceptable Cedar, spruce, balsam, aspen, birch, maple

Regen:

Other

Percent to Treat = 100%

Comment:

Proposed Start Date: 10/13/2016

16	45184016-Monitor	1.4	6120 - Lowland Cedar	Poletimber Well	125	141-170	Monitoring	Natural Regen (Intermediate)	6120 - Lowland Cedar	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription

Specs:

Next Step

Treatments:

Acceptable Cedar, spruce, balsam, aspen, birch, maple

Regen:

Other

Percent to Treat = 100%

Comment:

Proposed Start Date: 10/13/2016

6	45184016-Monitor	3.7	6120 - Lowland Cedar	Sapling Poor	25	Immature	Monitoring	Natural Regen (Intermediate)	6120 - Lowland Cedar	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription

Specs:

Next Step

Treatments:

Acceptable Cedar, spruce, balsam, aspen, birch, maple

Regen:

Other

Percent to Treat = 100%

Comment:

Proposed Start Date: 10/13/2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
6	45184016-Monitor	3.7	6120 - Lowland Cedar	Sapling Poor	25	Immature	Monitoring	Natural Regen (Intermediate)	6120 - Lowland Cedar	Uneven-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u>											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Cedar, spruce, balsam, aspen, birch, maple											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/13/2016											
17	45184017-Cut	9.4	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	82	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre).											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable</u> aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
18	45184018-Cut	28.3	4110 - Sugar Maple Association	Sawtimber Well	82	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Good diversity of species in this stand. Beech bark disease is present in the stand.											
<u>Specs:</u> Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all juneberry and conifer should be left. Some larger canopy gaps may be desirable. Actual treatment boundary may vary.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, basswood, hemlock, white spruce and white pine.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											
34	45184034-Cut	17.2	4119 - Mixed Northern Hardwoods	Sawtimber Well	71	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Good diversity of species in this stand. Beech bark disease is present in the stand.											
<u>Specs:</u> Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all juneberry and conifer should be left. Some larger canopy gaps may be desirable.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, basswood, hemlock, white spruce and white pine.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2017											



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
43	45184043-Cut	33.7	4115 - Y.Birch, Hemlock NH	Sawtimber Well	74	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Good diversity of species in this stand. Beech bark disease is present in the stand.

Specs: Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all juneberry and conifer should be left. Some larger canopy gaps may be desirable.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, basswood, hemlock, white spruce and white pine.

Other

Comment:

Proposed Start Date: 10/01/2017

45	45184045-Cut	14.0	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	73	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre).

Specs: Stay out of patches of thick cedar, do not cut cedar unless it is required for operation. Actual treatment boundary may vary.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, white spruce, black spruce, cedar, tamarack and white pine

Other

Comment:

Proposed Start Date: 10/01/2017

64	45184064-Cut	43.9	4110 - Sugar Maple Association	Sawtimber Well	82	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Good diversity of species in this stand. Beech bark disease is present in the stand.

Specs: Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all juneberry and conifer should be left. Some larger canopy gaps may be desirable.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Aspen, maple, cherry, beech, yellow and paper birch, ironwood, balsam fir, basswood, hemlock, white spruce and white pine.

Other

Comment:

Proposed Start Date: 10/01/2017

Total Treatment Acreage Proposed: 193.8

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 184

Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	5F	2H	3J
152	146	0	7	Aspen			7	
759	586	173	0	Cedar		173		
13	13	0	0	Herbaceous Openland				
29	0	29	0	Lowland Aspen/Balsam Poplar	29			
93	62	31	0	Lowland Conifers		31		
65	30	0	35	Lowland Deciduous			16	18
111	111	0	0	Lowland Shrub				
18	18	0	0	Mixed Upland Deciduous				
276	276	0	0	Northern Hardwood				
1	1	0	0	Upland Shrub				
50	50	0	0	Water				
1,567	1,292	234	41	Total Forested Acres	29	205	23	18
	82%	15%	3%	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
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5F: Evaluated for Forest Health Considerations	173	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5F: Evaluated for Forest Health Considerations	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment: 184

Year of Entry: 2018

5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	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	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6120 - Lowland Cedar	Poletimber Well	51.3	90	141-170	Fairly Dense Cedar stand, average theraml cover for deer.
2	4110 - Sugar Maple Association	Sawtimber Well	22.8	86	51-80	Nice big Sugar Maple, cut heavier last sale because of the remoteness of the stand. May be ready to thin in ten years.
3	4130 - Aspen	Sapling Well	12.2	18	Immature	Nice apsen regen, access from Zellar Road in Shingleton Unit.
6	6120 - Lowland Cedar	Sapling Poor	3.1	25	Immature	Stand was cut in 2011. The small diameter cedar that is remaining is from the understory of the previous stand. Some regeneration is present from the cutting.
9	6118 - Lowland Deciduous with Cedar	Poletimber Medium	6.9	72	1-50	Sparse, wet red maple stand. Very poor quality. Several large stick nests in the stand.
11	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	3.8	41	81-110	Wet ash stand. Small diameters. No sign of ash borer yet.
12	4110 - Sugar Maple Association	Sawtimber Well	2.5	59	81-110	Stand was thinned in 2004. Should be ready to cut next entry. Basal area is just under 100.
14	4112 - Maple, Beech, Cherry Association	Sapling Medium	18.6	26	Immature	Mixed Northern Hardwood regeneration. Stand is doing good. No sign of deer browse.
16	6120 - Lowland Cedar	Poletimber Well	192.8	125	141-170	Some old cedar strips cut within stand, cedar regen doing very good. A small sale was set up during the previous entry. Only 1 unit was cut. Line are still good to resell the sale.
17	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	9.4	82	111-140	Clear cut with reserves. Harvest with adjacent stand. Will need to winter harvest because of access.
18	4110 - Sugar Maple Association	Sawtimber Well	28.3	82	111-140	Thin to 80 basal area. Provide for big tree management along campground road.
19	6113 - Lowland Maple	Sawtimber Poor	13.8	73	51-80	Thin Red maple overtopping Cedar and Red Maple
21	4110 - Sugar Maple Association	Sawtimber Well	25.3	75	81-110	Stand was thinned in 2004, Should be ready in ten more years. Basal area is around 90. Regeneration is doing great.
25	4110 - Sugar Maple Association	Sawtimber Well	10.0	93	81-110	Nice sugar maple stand. Thinned in 2012.
26	4134 - Aspen, Spruce/Fir	Sapling Well	24.0	4	Immature	Stand was cut in 2012.
27	6120 - Lowland Cedar	Sapling Poor	5.7	18	Immature	Some cedar regen, spotty though



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
28	6124 - Lowland Spruce-Fir	Sapling Poor	4.7	15	Immature	Stand is very wet, regen is sparse.
29	6120 - Lowland Cedar	Poletimber Well	33.3	104	Unspecified	Fairly dense cedar, some small openings in the stand
30	4134 - Aspen, Spruce/Fir	Sapling Well	29.7	25	Immature	Nice aspen regen, west side of stand has more balsam
32	6123 - Lowland Fir	Poletimber Medium	31.3	62	Unspecified	Wet spruce fir stand, timber is spotty. No sign of SBW at this time.
33	6113 - Lowland Maple	Poletimber Well	18.2	71	51-80	Wet red maple stand bordering Shoepac Lake, balsam is heavier along lake shore. Nice riparian zone along the lake.
34	4119 - Mixed Northern Hardwoods	Sawtimber Well	17.2	71	141-170	Stand is ready to be thinned. Will need to winter harvest because of access.
35	6120 - Lowland Cedar	Poletimber Well	16.2	100	141-170	Wet cedar, some deer browse evident
37	4130 - Aspen	Sapling Well	38.2	21	Immature	Aspen regeneration doing really good, trees are shorter were the ground is wetter.
38	6120 - Lowland Cedar	Poletimber Well	113.2	91	141-170	Patches of Bam in the stand. Some deer use of the stand.
39	4119 - Mixed Northern Hardwoods	Poletimber Well	22.2	91	51-80	
40	6124 - Lowland Spruce-Fir	Sapling Well	56.8	33	Immature	Young swamp conifer stand balsam and cedar regen doing pretty good, some white spruce on the hummocks.
43	4115 - Y.Birch, Hemlock NH	Sawtimber Well	33.7	74	111-140	Stand is ready to harvest. Thin to 80-90 basal area.
44	6120 - Lowland Cedar	Poletimber Well	19.0	117	Unspecified	Wet cedar stand bordering shoepac creek
45	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	14.0	73	81-110	Mixed stand. Look at clear cut with reserves.
47	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	16.5	90	111-140	Stand is blocked by large cedar stand and private property.
48	4119 - Mixed Northern Hardwoods	Sawtimber Well	32.5	82	81-110	Stand contains South Manistique State Forest Campground. A beech salvage was done in the last ten years along with a regular thinning in the last entry. Look at thinning in ten years. Regular hazard tree abatement within the campground is expected over the next decade.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
50	6120 - Lowland Cedar	Poletimber Well	173.3	106	Unspecified	Large cedar stand, fairly wet.
51	6112 - Lowland Aspen	Poletimber Medium	16.4	49	51-80	Stand will hold for 10 more years when rest of area is ready to be harvested.
57	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.8	98	81-110	Stand was in 2002. It will be ready next entry.
58	4130 - Aspen	Poletimber Well	6.5	80	Unspecified	Small stand blocked by several hundred acres of cedar, private land, and Shoepac Lake.
59	6112 - Lowland Aspen	Poletimber Well	12.7	52	81-110	Look at final harvest in 10 years.
60	4130 - Aspen	Sapling Well	41.8	15	Immature	Nice aspen regeneration.
61	6120 - Lowland Cedar	Poletimber Well	151.5	92	141-170	Extremely dense cedar. Lots of deer sign.
63	4110 - Sugar Maple Association	Poletimber Well	9.1	81	81-110	Stand thinned in 2000. It will be ready in the next entry.
64	4110 - Sugar Maple Association	Sawtimber Well	43.9	82	111-140	Stand is ready for a thinning. Regeneration gaps from last harvest are doing really well. Beech bark disease in stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
4	500 - Water	2.9	No	
5	622 - Lowland Shrub	1.8	No	
7	622 - Lowland Shrub	12.1	No	
8	622 - Lowland Shrub	45.6	No	
10	500 - Water	43.4	No	
13	500 - Water	1.0	No	Extremely dense cedar
15	3102 - Grass	3.7	No	
20	622 - Lowland Shrub	2.2	No	
22	622 - Lowland Shrub	2.5	No	
23	3102 - Grass	0.8	No	
24	320 - Upland Shrub	0.6	No	
31	622 - Lowland Shrub	38.9	No	
53	500 - Water	2.4	No	
55	622 - Lowland Shrub	1.4	No	
56	622 - Lowland Shrub	4.4	No	
62	3102 - Grass	8.6	No	
65	629 - Mixed non-forested wetland	1.8	No	Power line dividing stand.