



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 33104

Entry Year 2017

Acreage: 605

County Delta

Management Area: Dead Horse Moraines

Revision Date: 2015-07-10

Stand Examiner: Dan McNamee

Legal Description:

T42N, R22W, SEC. 25 & 36.

Identified Planning Goals:

A total of 171 acres will be treated in this treatment period. 62 acres of final harvest will occur in the upland and lowland spruce/ fir, mixed upland deciduous and upland conifers types. 100 acres of seed tree harvests will occur in the lowland and upland spruce/fir types.

Soil and topography:

Major soil series within this compartment are: Rousseau and Trenary on the uplands, with Tawas, Dawson and Greenwood peats on the lowland. Terrain is varied with large low wet areas divided by sandy ridges.

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

USFS adjoins this compartment on the east side. Private ownership to North, south and west.

Unique Natural Features:

USFS Rapid River Ski Trail is located just to the east of the compartment with some of the trail located within this compartment.

Archeological, Historical, and Cultural Features:

N/A

Special Management Designations or Considerations:

N/A

Watershed and Fisheries Considerations:

Surface sediments consist of medium-textured glacial till and lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Limestone underlies the glacial drift. The Trenton is quarried for stone to the south, north of Rapid River and may overlap Precambrian aged rocks which may have metallic and nonmetallic mineral potential. This Compartment has not been previously leased for metallic exploration. Gravel pits are located in Section 23 and there appears to be potential. No economic oil and gas production has been found in the UP, although a recent well was drilled and cased for testing in Schoolcraft County.

Wildlife Habitat Considerations:

This small compartment is located about 4 miles east of Perkins in central Delta County. The property is bordered by private land to the west and U.S. Forest Service land on the east. A popular cross country ski trail extends into this compartment providing outdoor recreation opportunities. This compartment is primarily comprised of lowland areas including treed bog, black spruce, tamarack, and some upland ridges with aspen, fir and pine. Several black spruce stands will be harvested which will increase age class diversity, and some natural pine stands will be thinned. The planned harvests over the next decade will increase stand age-class diversity and provide good early successional wildlife habitat.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till and lacustrine sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Formation underlies the glacial drift. The Trenton is quarried for stone to the south, near Escanaba. This compartment has not been previously leased for mineral exploration. Gravel pits are located on uplands to the south and east. Sand and gravel potential appears to be limited within the compartment. No economic oil and gas production has been found in the UP.

Vehicle Access:

Most of this area has been gated to the North and east by the USFS to protect the ski trail. The west side is gated by the City of Gladstone.

Survey Needs:

N/A.

Recreational Facilities and Opportunities:

Hunting and trapping and cross country skiing.

Fire Protection:

There is potential for fire within this compartment during the spring and if drought conditions occur. With limited access, it could allow the fire to grow should a fire get started. The large areas of spruce, treed bogs and pine could cause a fire to have extended mop up work during drought conditions.

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**

Report 1 – Total Acres by Cover Type and Age Class

Escanaba Mgt. Unit

Compartment 104 Year of Entry 2017

Dan McNamee : Examiner

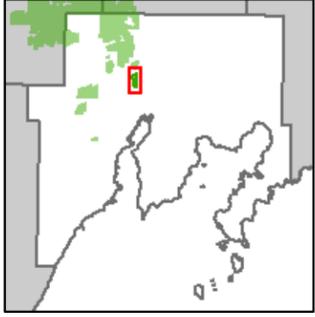


Age Class

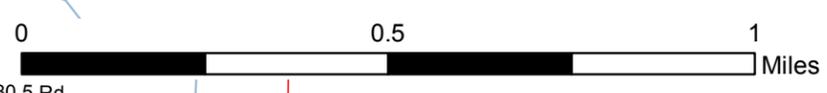
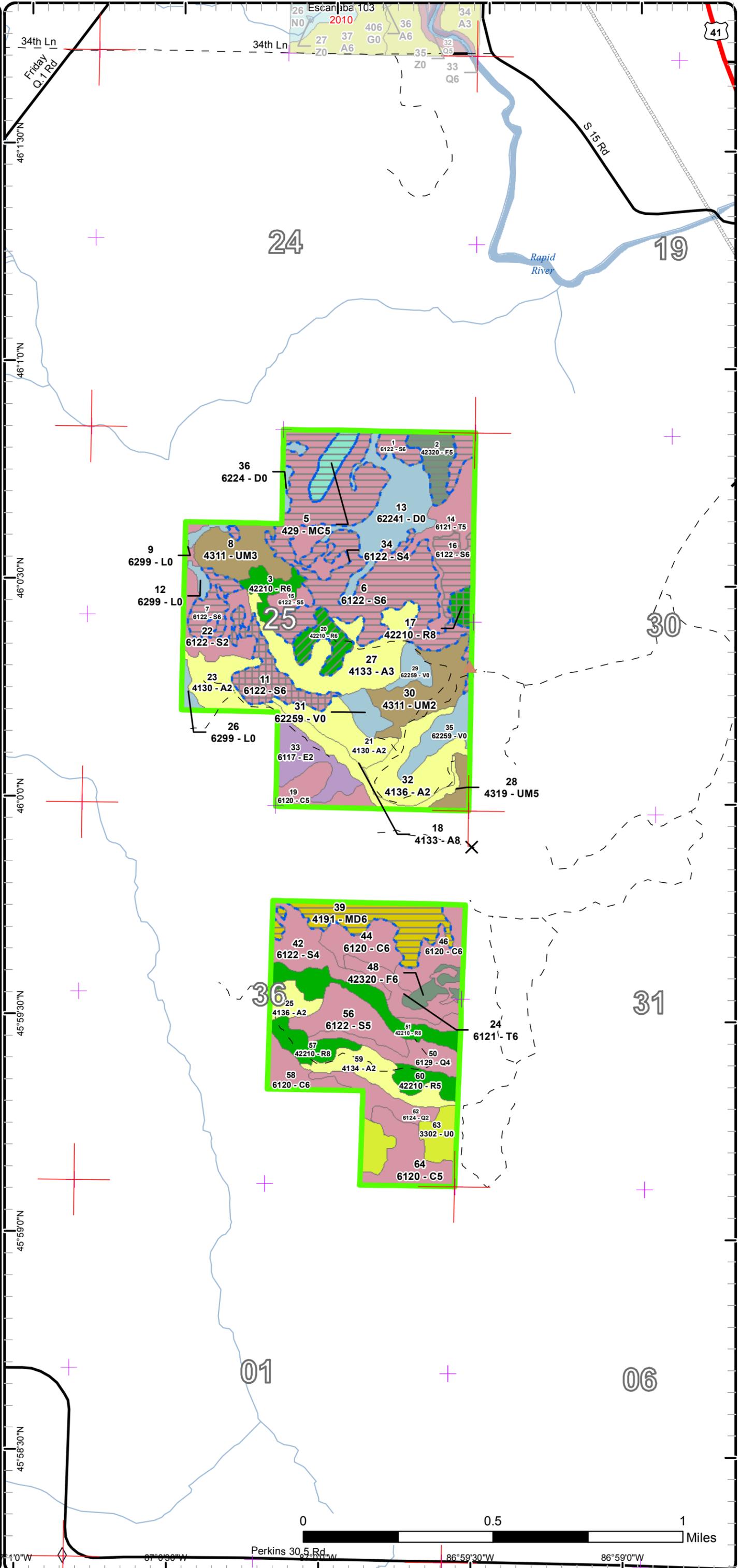
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	66	31	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	107
Bog	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Cedar	0	0	0	0	0	0	0	0	0	0	0	11	49	0	0	0	0	0	60
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Conifers	0	9	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	23
Lowland Deciduous	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	13
Lowland Shrub	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	56	122	0	0	0	0	0	0	0	0	178
Mixed Upland Deciduous	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	22
Red Pine	0	0	0	0	0	0	0	0	18	7	15	8	0	0	0	0	0	0	48
Tamarack	0	0	0	0	0	0	0	0	9	15	0	0	0	0	0	0	0	0	24
Treed Bog	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Upland Conifers	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	20	17	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	42
Upland Spruce/Fir	0	0	0	0	5	0	0	0	9	0	0	0	0	0	0	0	0	0	14
Total	68	95	48	0	5	0	0	32	112	163	15	19	49	0	0	0	0	0	606

Cover Type & Treatments

Compartment: 104
 T42N R22W 25,36
 County: Delta
 Unit: Escanaba
 Mgmt Area: Dead Horse Moraines
 YOE: 2017
 Acres: 605 GIS Calculated
 Examiner: Dan McNamee
 Map Revised: 7/7/2015
 Map Phase: Pre-Review



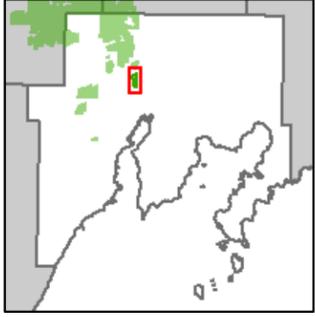
- ✚ Remonumented Section Corner
- ◇ Field Grade GPS Corners
- Miris Corners
- Highway
- Paved Roads
- - Poor Dirt Roads
- ✕ Gate
- ▲ Berms
- Rivers
- Lakes
- Pipeline
- ▨ Treatments with Site Conditions
- Treatments**
- ▨ Clearcut (w/Reserves)
- ▨ Thinning (Crown, Low, Systematic)
- ▨ Seed Tree (w/Reserves)
- Forest Covertype**
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Covertype**
- 330 - Low Density Trees
- 622 - Lowland Shrub



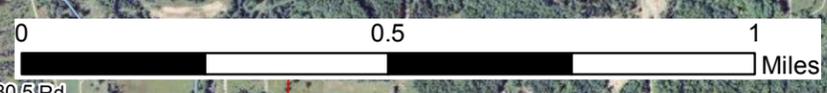
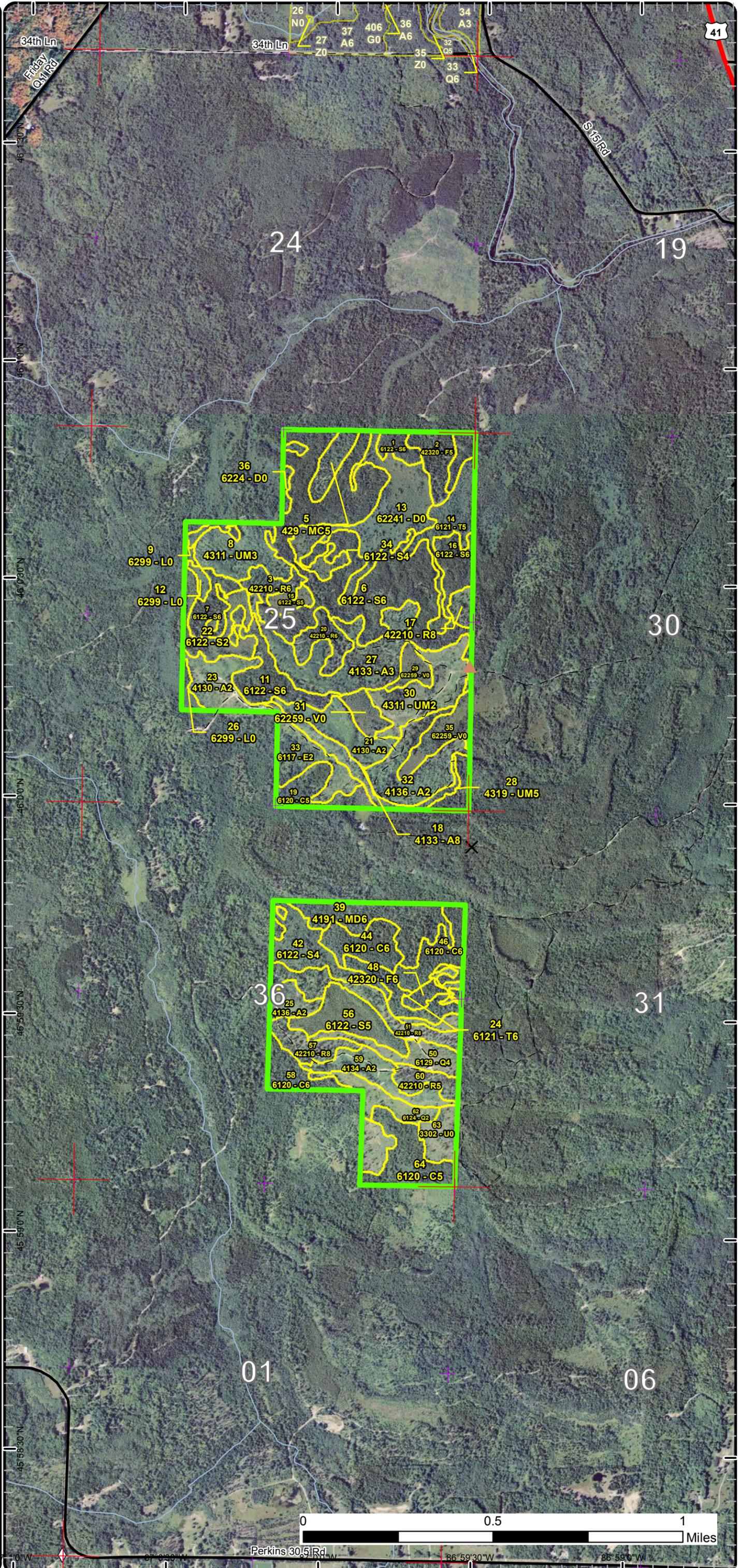
Perkins 30.5 Rd 86°59'30"W 86°59'0"W

Stand Boundary Map

Compartment: 104
 T42N R22W 25,36
 County: Delta
 Unit: Escanaba
 Mgmt Area: Dead Horse Moraines
 YOE: 2017
 Acres: 605 GIS Calculated
 Examiner: Dan McNamee
 Map Revised: 7/7/2015
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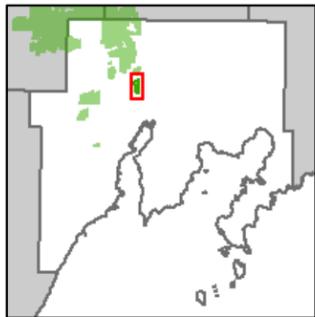
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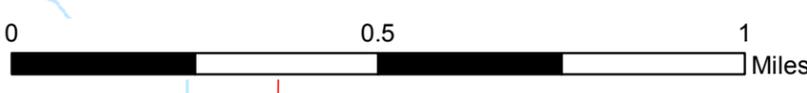
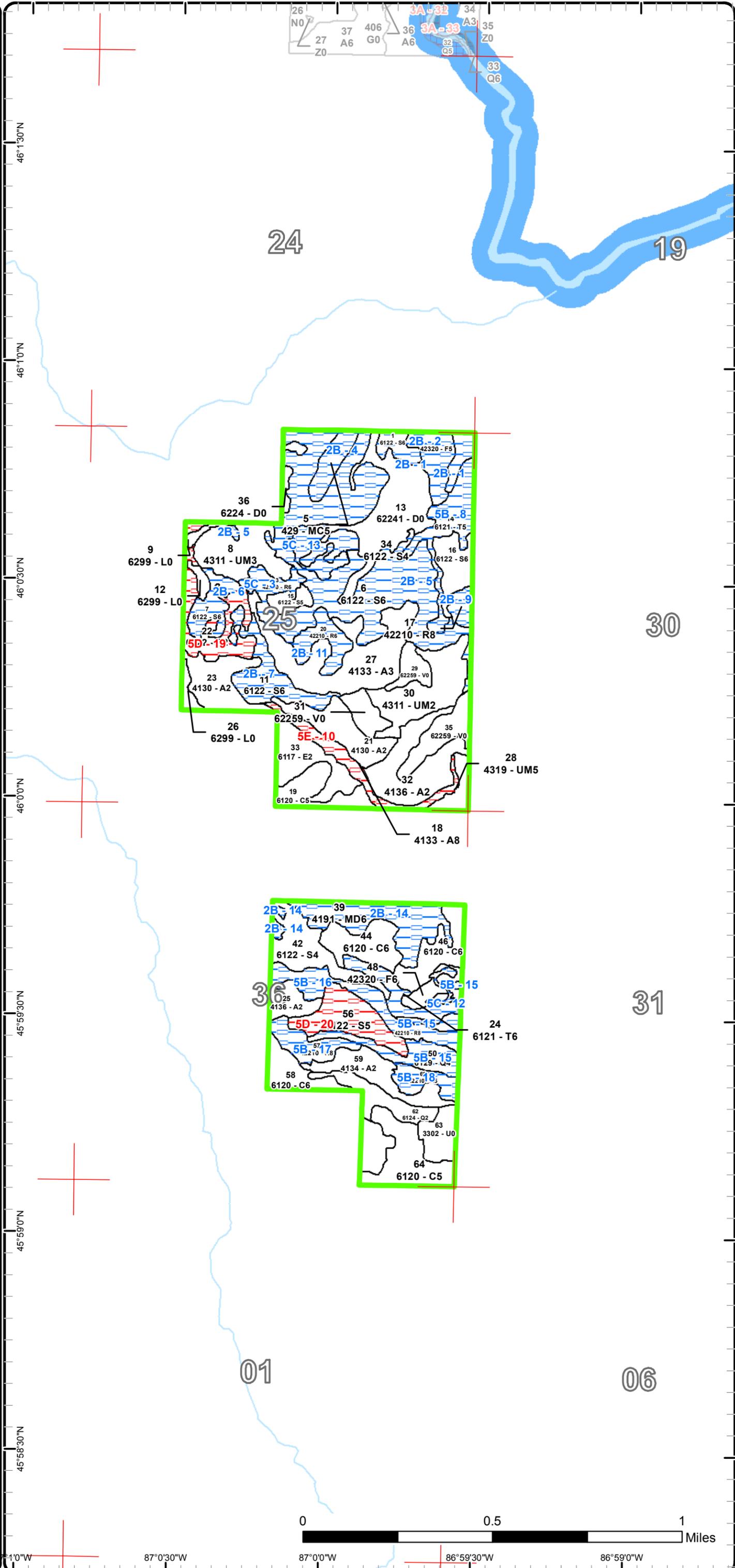
Perkins 30.5 Rd 86°59'30"W 86°59'30"W

Special Conservation Areas & Site Conditions Map

Compartment: 104
 T42N R22W 25,36
 County: Delta
 Unit: Escanaba
 Mgmt Area: Dead Horse Moraines
 YOE: 2017
 Acres: 605 GIS Calculated
 Examiner: Dan McNamee
 Map Revised: 7/7/2015
 Map Phase: Pre-Review



- Miris Corners
- Stand Boundaries
- Site Condition
- Available w/ Constraints
- Unavailable
- Available Factors W/ Constraints
- 2B: Unknown if access through adjacent landowner(s) is possible
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Special Conservation Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



87°10'W 87°0'0"W 86°59'30"W 86°59'0"W



Report 2 – Treatment Summary

Escanaba Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 104

Total Compartment Acres: 605

Commercial Harvest - 0
 Harvests with Site Condition - 162
 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
Lowland Spruce/Fir	107	0	0	15	0	0	0	0	0	122
Mixed Upland Deciduous	22	0	0	0	0	0	0	0	0	22
Red Pine	0	0	0	4	0	8	0	0	0	12
Upland Conifers	7	0	0	0	0	0	0	0	0	7
Upland Spruce/Fir	9	0	0	0	0	0	0	0	0	9
Total	144	0	0	18	0	8	0	0	0	171

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	171	0	0	0	0	0	0	0	0	171
Next Step	0	0	0	0	0	0	171	0	0	171
Total	171	0	0	0	0	0	171	0	0	342



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
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1	33104001-Cut	8.2	6122 - Black Spruce	Poletimber Well	82	51-80	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:** Unknown Access

Prescription Clear cut with no residual.

Specs:

Next Step

Treatments:

Acceptable Fsb, T, C, Fb, Wp, Rp.

Regen:

Other Area is small and there is a seed source to the north. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

2	33104002-Cut	9.0	42320 - Upland Spruce	Poletimber Medium	79	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:** Unknown Access

Prescription Remove all spruce and aspen. In the northern 3rd of stand mark some pine with green paint, Mark to leave 30 BA of Pine.

Specs:

Next Step

Treatments:

Acceptable Fsb, Fb, A, Rp.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

5	33104005-Cut	6.6	429 - Mixed Upland Conifers	Poletimber Medium	79	1-50	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:** Unknown Access

Prescription Remove all Fsb, Fb, A. Mark some Wpine for retention and Seed.

Specs:

Next Step

Treatments:

Acceptable Fbs, Fb, Wp, A.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

6	33104006-Cut	82.0	6122 - Black Spruce	Poletimber Well	85	51-80	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:** Unknown Access

Prescription Cut all trees. No retention due to potential for spruce budworm host.

Specs:

Next Step

Treatments:

Acceptable Fsb, T, Fb, C. P.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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
7	33104007-Cut	7.7	6122 - Black Spruce	Poletimber Well	85	81-110	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Proposal

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

Prescription Remove all trees..

Specs:

Next Step

Treatments:

Acceptable Fbs, T, Fb, C.

Regen:

Other Area is small. Seed source is available in adjacent stand to the west. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

11	33104011-Cut	14.8	6122 - Black Spruce	Poletimber Well	80	81-110	Harvest	Seed Tree	6122 - Black Spruce	Even-Aged	Proposal
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Habitat Cut: No **Site Condition: Unknown Access**

Prescription Cut all timber, leaving seed source along the west edge or a patch within the sale area, this will be determined at the time of sale.

Specs:

Next Step

Treatments:

Acceptable Fbs, T, Fb, C.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

16	33104016-Cut	9.0	6122 - Black Spruce	Poletimber Well	81	81-110	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Proposal
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Habitat Cut: No **Site Condition:**

Prescription Cut all merchantable trees within the stand, there is an available resource in adjacent stands.

Specs:

Next Step

Treatments:

Acceptable Fbs, Fb, T, C.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

17	33104017-Cut	3.6	42210 - Natural Red Pine	Sawtimber Medium	79	1-50	Harvest	Seed Tree with Retention	4221 - Natural Red Pine	Two-Aged	Proposal
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Habitat Cut: No **Site Condition: Unknown Access**

Prescription Retain approx. 20 BA of pine for seed source.

Specs:

Next Step

Treatments:

Acceptable Rp, Wp, Jp, Fsb, Fb.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
20 33104020-Cut	8.3	42210 - Natural Red Pine	Poletimber Well	74	51-80	Harvest	Crown Thinning	4221 - Natural Red Pine	Two-Aged	Proposal

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

Prescription Thin stand to improve the quality of stand. Remove any short lived spp. and thin the pine leaving the best quality pine.

Specs:

Next Step

Treatments:

Acceptable Rp, Spruce, Wp, Fb..

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

39 33104039-Cut	21.8	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	68	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal
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Habitat Cut: No **Site Condition: Unknown Access**

Prescription Cut all merchantable trees. leave the wetter areas as retention, cut the highground. Winter cut and no chipping.

Specs:

Next Step

Treatments:

Acceptable A, Wb, Rm, Fb, Fsw, P.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

Total Treatment Acreage Proposed: 170.9

Report 5 – Site Conditions

Escanaba Mgt. Unit
Dan McNamee : Examiner

Compartment: 104
Year of Entry: 2017

Availability for Management

Total Acres	Acres		Dominant Site Conditions	2B	5B	5C	5D	5E
	Available	Not Available						
106	96	10	Aspen					10
20	20	0	Bog					
60	60	0	Cedar					
13	13	0	Low-Density Trees					
23	9	14	Lowland Conifers		14			
13	13	0	Lowland Deciduous					
6	6	0	Lowland Shrub					
178	27	150	Lowland Spruce/Fir	113		7	31	
22	0	22	Mixed Upland Deciduous	22				
48	0	48	Red Pine	12	30	7		
24	0	24	Tamarack		15	9		
29	29	0	Treed Bog					
7	0	7	Upland Conifers	7				
42	42	0	Upland Mixed Forest					
14	5	9	Upland Spruce/Fir	9				
605	321	284	Total Forested Acres	162	59	23	31	10
	53%	47%	Relative Percent					

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Escanaba Mgt. Unit
Dan McNamee : Examiner

Compartment: 104
Year of Entry: 2017

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2B: Unknown if access through adjacent landowner(s) is possible	82	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	2B: Unknown if access through adjacent landowner(s) is possible	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Escanaba Mgt. Unit
 Dan McNamee : Examiner

Compartment: 104
 Year of Entry: 2017

9	Available	2B: Unknown if access through adjacent landowner(s) is possible	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	10	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	2B: Unknown if access through adjacent landowner(s) is possible	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	2B: Unknown if access through adjacent landowner(s) is possible	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Escanaba Mgt. Unit
 Dan McNamee : Examiner

Compartment: 104
 Year of Entry: 2017

15	Available	5B: Maintain for regeneration purposes	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	5D: Unproductive Forest Land	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5D: Unproductive Forest Land	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – 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
Comments				



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6122 - Black Spruce	Poletimber Well	8.2	82	51-80	2015- Nice spruce some dead and dying trees scattered throughout. OPIC - FMD: OI Stand Year Origin was 1961
2	42320 - Upland Spruce	Poletimber Medium	9.0	79	51-80	2015- Aspen in bad shape. R pine is northern 3rd of stand. OPIC - FMD: Tough access, aspen is poor quality. Schedule for harvest with limiting factor due to access problems.
3	42210 - Natural Red Pine	Poletimber Well	6.8	86	51-80	2015- More pine than aspen. Aspen is filling in in the more open areas but overall it is pine. OPIC - FMD: This stand was harvested in 1999 under contract number 016-97-01. Red, white, and Jack pine were left as well as white birch. (Oyster Aspen)
5	429 - Mixed Upland Conifers	Poletimber Medium	6.6	79	1-50	2015- More spruce on southern tip, more aspen and Wpine as you go north. Wpine is low quality lots of weevil (forked trees).OPIC - FMD: ASPEN IS POOR QUALITY BUT COULD BE CUT WITH ST2 IF ACCESS FOUND .
6	6122 - Black Spruce	Poletimber Well	82.0	85	51-80	2015- Nice stand of spruce. Mostly low ground with some upland. Spruce has some tops and dying trees. OPIC - FMD: OI Stand Year Origin was 1934
7	6122 - Black Spruce	Poletimber Well	7.7	85	81-110	2015- North end not as good quality as the south.OPIC - FMD: Small timber, patchy, timber surrounds low treed bog areas.
8	4311 - Pine, Aspen Mix	Sapling Well	16.8	16	Immature	2015- fully stocked stand of aspen with areas of mixed upland conifer.OPIC - FMD: This stand was harvested in 1999 under contract number 016-97-01. Red, white, and Jack pine were left as well as white birch. (Oyster Aspen)
11	6122 - Black Spruce	Poletimber Well	14.8	80	81-110	OPIC - FMD: Small timber, patchy, timber surrounds low treed bog areas.
14	6121 - Tamarack	Poletimber Medium	14.7	81	51-80	2015- Tamarack is dead or dying, spruce is small, cedar is 1-2 stick poor quality. Very wet. OPIC - FMD: Small stunted timber.
15	6122 - Black Spruce	Poletimber Medium	3.6	75	Unspecified	Was called a bog last time. Area is filling in with trees, mainly Fs & T, with residual 1 stick Fs & T also an occasional R. pine 8" dbh.
16	6122 - Black Spruce	Poletimber Well	9.0	81	81-110	OPIC - FMD: OI Stand Year Origin was 1934
17	42210 - Natural Red Pine	Sawtimber Medium	3.6	79	1-50	OPIC - FMD: Treated in 1999, contract # 16-97-01 (Oyster Aspen Sale).
18	4133 - Aspen, Mixed Pine	Sawtimber Medium	9.9	60	51-80	2015 - This stand was left as retention for stands 21 & 32, it was located on a steep bluff in std 21 and along the ski trail in std 32. OPIC - FMD: Treated in winter of 2011 under Inman Creek Mix sale,330100701. LOWLAND ASPEN; WINTER CUT OR DRY SUMMER HARVEST. REMOVE MATURE TIMBER ONLY.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
19	6120 - Lowland Cedar	Poletimber Medium	10.6	106	1-50	East portion was cut in 2011, East vs West could be two separate stands but too small to break out. OPIC - FMD: Treated in winter of 2011 under Inman Creek Mix sale, 330100701. LOWLAND ASPEN; WINTER CUT OR DRY SUMMER HARVEST. REMOVE MATURE TIMBER ONLY.
20	42210 - Natural Red Pine	Poletimber Well	8.3	74	51-80	2015- Nice pine, north side of road is more log than pole. Aspen is heavy in understory in places. OPIC - FMD: Stand was treated in 1999, contract 16-97-01 (Oyster Aspen). All the aspen was removed and pine was left.
21	4130 - Aspen	Sapling Medium	13.5	4	Immature	OPIC - FMD: Stand treated in 2011 under contract 330100701, Inman Creek Mix. USFS ski trail is located in this stand. Will have to work with the Forest Service when treating this stand. Leave smaller pine in this area and mark or designate some of the bigger pine for seed trees. Small patch of J. pine located in SE part of stand.
22	6122 - Black Spruce	Sapling Medium	15.2	70	Unspecified	2015- Was typed as a D0 last time. Filling in with spruce. OPIC - FMD: OI Stand Year Origin was
23	4130 - Aspen	Sapling Medium	13.5	4	Immature	OPIC - FMD: Aspen is mature, access could be a problem. Access was gained and stand was cut in 2011 under contract 330100701, Inman Creek Mix.
24	6121 - Tamarack	Poletimber Well	9.3	78	Unspecified	OPIC - FMD: OI Stand Year Origin was
25	4136 - Aspen, Mixed Conifer	Sapling Medium	5.8	4	Immature	OPIC - FMD: Treated in 2011, Inman Creek Mix sale, 330100701. Maintain the pine in this stand.
27	4133 - Aspen, Mixed Pine	Sapling Well	30.9	16	Immature	2015 - Primarily an aspen stand with residual pine. Jack pine is heavy in spots. OPIC - FMD: Treated in 1999 under contract #16-97-01 (Oyster Aspen Sale). Aspen and White birch were removed and patches of pine and spruce were left. Aspen is coming back.
28	4319 - Mixed Upland Forest	Poletimber Medium	5.0	81	51-80	2015 - Area was not treated, was left because of USFS ski trail. OPIC - FMD: Treated in winter of 2011 under Inman Creek Mix sale, 330100701. LOWLAND ASPEN; WINTER CUT OR DRY SUMMER HARVEST. REMOVE MATURE TIMBER ONLY.
30	4311 - Pine, Aspen Mix	Sapling Medium	19.8	4	Immature	2015 - coming back to fully stocked. Some places it is heavy to Aspen and others it is heavy to J. pine. OPIC - FMD: Stand treated in 2011 under contract 330100701, Inman Creek Mix. There was a buffer of residual trees left along the edge of the USFS ski trail. South end of stand has a 50/50 mix of aspen / J. pine. Treat this time around. Will have to check after harvest to see if slash will have to be reduced by prescribe burn.
32	4136 - Aspen, Mixed Conifer	Sapling Medium	20.1	4	Immature	OPIC - FMD: Stand treated in 2011 under contract 330100701, Inman Creek Mix. pre treatment - USFS ski trail is located in this stand. Will have to work with the Forest Service when treating this stand. Leave smaller pine in this area and mark or designate some of the bigger pine for seed trees. Small patch of J. pine located in SE part of stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
33	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	13.4	75	1-50	2015 - Since treatment this has become a 2 aged stand. residual is the canopy spp. and the understory is the sub-canopy. Sub-canopy is what is regenerating. OPIC - FMD: Treated in winter of 2011 under Inman Creek Mix sale, 330100701. LOWLAND ASPEN; WINTER CUT OR DRY SUMMER HARVEST. REMOVE MATURE TIMBER ONLY.
34	6122 - Black Spruce	Poletimber Poor	6.7	79	Unspecified	2015- Poorer quality site than stand 6. Pockets of spruce and tamarack with heavy understory of Lo. OPIC - FMD: Treed bog.
39	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	21.8	68	81-110	2015 - Ove-rmature stand of timber. Far east and west side is smaller scattered timber and more lowland brush. Access is problem. OPIC - FMD: Treat this time around. Access could be a limiting factor. Will have to get access from landowner to the north. Some cedar will have to be cut so that contractor can treat stand. Lower ground. Leave cedar clumps (.25 -.5 acre) scattered throughout the sale.
42	6122 - Black Spruce	Poletimber Poor	14.9	75	Unspecified	2015 - Mostly Lo with scattered clumps of timber. Stand is filling in with Spruce and Tamarack and will probably be a fully stocked stand next time around. OPIC - FMD: OI Stand Year Origin was
44	6120 - Lowland Cedar	Poletimber Well	12.0	111	81-110	OPIC - FMD: WIDE RANGING STOCKING; T & QINCLUSIONS. SMALL DIAMETER.
46	6120 - Lowland Cedar	Poletimber Well	11.6	115	81-110	
48	42320 - Upland Spruce	Poletimber Well	5.0	30	51-80	2015 - Lots of small diameter timber under the mature timber. Stand could be harvested but the acreage is to small to treat alone. OPIC - FMD: OI Stand Year Origin was 1985
50	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	14.4	80	1-50	2015- stand is filling in with the above mentioned sub-canopy spp. wait another 10 yrs to let more spp. seed in. OPIC - FMD: Treated in 2011, Inman Creek Mix Sale 330100701. Seed tree Method. previous inv.=Small diameter. Could be cut now or hold till next time around.
51	42210 - Natural Red Pine	Sawtimber Medium	15.0	94	1-50	2015- Recently harvested, residual spp listed above and regen is the sub-canopy. .OPIC - FMD: Treated in 2011, Inman Creek Mix, 330100701. Seed tree method used.
56	6122 - Black Spruce	Poletimber Medium	15.4	75	Unspecified	2015 - East edge of stand is mainly tamarack. rest of stand is Spruce that is small diameter and lots of unmerchantable timber. OPIC - FMD: Treed bog.
57	42210 - Natural Red Pine	Sawtimber Medium	8.2	108	1-50	2015 - residual log sized pine with Aspen saplings. OPIC - FMD: Treated in 2001, Inman Creek Mix sale, 330100701. prev.inv= Harvest overmature Hdwds, spruce & fir, also remove some pine.
58	6120 - Lowland Cedar	Poletimber Well	8.9	110	51-80	OPIC - FMD: APPROX. A 2A E4Q3 INCLUSION IN SW CORNER. THIS COULD ALSO BE TYPED AS AN "E6" STAND.

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Escanaba Mgt. Unit

Report 8 – Forested Stands

Compartment: 104

Year of Entry: 2017



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
59	4134 - Aspen, Spruce/Fir	Sapling Medium	12.7	4	Immature	OPIC - FMD: Treated in 2011, Inman Creek Mix sale 330100701. Timber along steep slope was left as retention. This is located along south edge of stand. prev. inv=STAND CONTAINS MINOR PINE IN-CLUSIONS. MAINTAIN SOME OF THE PINE AND REMOVE THE DECLINING PINE. SMALL PIECE IN SOUTHWEST CORNER OF STAND CONTAINS ABOUT .5 ACRE OF F6 STAND.
60	42210 - Natural Red Pine	Poletimber Medium	6.4	78	51-80	OPIC - FMD: Treated in 2011, Inman Creek Mix sale, 330100701. Seed tree Method. prev inv= UPLAND BLACK SPRUCE AND PINE. EDGE OF RIDGE IS MORE SPRUCE THAN PINE.
62	6124 - Lowland Spruce- Fir	Sapling Medium	9.1	4	Immature	2015 - The overstory is the submerchantable trees that were left and the understory is what is filling in after the harvest. OPIC - FMD: Treated in 2011, Inman Creek Mix sale,330100701. prev inv = LOWLAND ASPEN & WHITE BIRCH. TREAT THIS TIME AROUND. LOW GROUND HARVEST IN DRY SUMMER OR WINTER.
64	6120 - Lowland Cedar	Poletimber Medium	16.9	115	81-110	OPIC - FMD: STAND CONTAINS L INCLUSIONS.



Stand	Cover Type	Acres	Managed Site	General Comments:
9	6299 - Lowland Shrub (OI)	1.5	No	OPIC - FMD: Tag alder, lowland brush, wet area.
12	6299 - Lowland Shrub (OI)	1.7	No	OPIC - FMD: Tag alder, lowland brush, wet area.
13	62241 - Treed Bog (OI)	26.6	No	OPIC - FMD: Treed bog.
26	6299 - Lowland Shrub (OI)	2.4	No	OPIC - FMD: Lowland brush area.
29	62259 - Bog (OI)	5.0	No	Treed bog, filling in with spruce and some pine. Could be a forested stand. Check next time to see if it is. OPIC - FMD: OI Stand Year Origin was
31	62259 - Bog (OI)	5.6	No	2015 - Sphagnum bog with leatherleaf, wet area, scattered trees. this will end up as a black spruce and Tamarack stand. OPIC - FMD: OI Stand Year Origin was
35	62259 - Bog (OI)	9.8	No	Essentially a bog on east and west sides with pocket of spruce in the middle. OPIC - FMD: OI Stand Year Origin was
36	6224 - Treed Bog	2.3	No	2015 - Lowland brush with scattered timber. OPIC - FMD: Upland, Red Pine and Spruce. Small "L" type that separates stand 6 and stand 4 located on south edge of this stand.
63	3302 - Low Density Conifer Trees	13.5		This stand is filling in nicely with black spruce mainly about 1 foot or less in the lower ground areas. This will be forested within the next 2 treatment periods. The black spruce is moderate/high regeneration in the lowland pockets above water and sparse in the upland ridge with black spruce, and red and white pine. This stand was treated in 2011, Inman Creek Mix Sale, 330100701.