



# Compartment Review Presentation

## Sault Ste. Marie Forest Management Unit

Compartment 135

Entry Year 2016

Acreage: 2,063

County Mackinac

Management Area: Mackinac Mix

**Revision Date:** 07/09/2014

**Stand Examiner:** Dan Beaudou

### Legal Description:

T44N-R7W, Sections 27, 28, 32 & 33

### Identified Planning Goals:

This compartment is located around "downtown" Caffey Corners. Management plans are to maintain and enhance aspen age class diversity. The northeastern portion is considered a wintering deer yarding area. Attempts had been made in the late 1970's and early 1980's to try some strip cuts within the cedar stands. While the majority of these cuts appear to be fully stocked, they contain quite a mix of softwood and hardwood species as well as non-timber species.

### Soil and topography:

The area varies from low wet bogs and swamps to rolling and undulating uplands. Uplands are characterized by nearly level and undulating areas on outwash plains, ground moraines, and beach ridges. The primary soil type is Springlake loamy coarse sand, with small areas of Wallace sand, Paquin sand, Heinz sandy loam and Spot-Finch complex. The bogs in closed depressions on ground moraines, lake plains, and outwash plains consist of Dawson and Loxley peats. The swamp conifer stands in depressions on ground moraines, lake plains, and outwash plains consist of Markey and Carbondale mucks

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

The crossroad community of Caffey Corners is located within the compartment. Active gravel pits are located adjacent to, and south of the State pit in sections 32 and 33. The town of Rexton lies to the west. A sand mining company based in Epoufette owns a rock quarry and adjacent timber lands in sections 33 and 34. A forty acre in-holding (camp) is located in section 28. State lands adjoin to the north, northwest, south and east. Graymont, Inc. has submitted a proposal to the Department of Natural Resources to acquire more than 10,000 acres of state-managed forest in northern Mackinac County near the town of Rexton for the purpose of developing a limestone mine.

### Unique Natural Features:

Headwaters of the South Branch Hendrie River lie within the compartment. Reagan Lake lies between gravel pits and the railroad. Its' name may be deceiving since it appears to be a dry lake in recent years. The potential exists for threatened and endangered plant and animal species within this compartment.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

### Special Management Designations or Considerations:

Appropriate buffers will be left around active hawk nests where found. BMP's will be applied where appropriate.

### Watershed and Fisheries Considerations:

Fisheries Values: Moderate

Fisheries Concerns: Only the northern portion of this compartment lies within the Lake Superior watershed. The very immediate headwaters of the Hendrie River (South Branch Hendrie River) are located in this compartment. A fair amount of groundwater input in this section creates suitable conditions for native brook trout. South Branch Hendrie River (and tributaries) is a designated trout stream from the Soo Line upstream. Prescribed treatments in stands 67, 68, and 73 call for clear-cuts, but does not include aspen as a major cover type component or objective. Stand 67 and 73 maintain a no clear-cut within 100 feet from South Branch Hendrie River. Stand 68 should maintain a no clear-cut setback of 200 ft. from the South Br. Hendrie River and 50 ft. buffer along drainage ditch within the stand. Justification is to eliminate the possibility of aspen regeneration near the stream.

### Wildlife Habitat Considerations:

This compartment is part of the Mackinac Mix Management Area. The original surveyor's notes show that this area contained a diversity of tree species in the pre-settlement forest. The assemblage of tree species includes hemlock, white birch, yellow birch, sugar maple, black ash, aspen, elm, red maple, and cedar. Lowlands also contained spruce and

tamarack. Aspen and cedar appear to be more prevalent in today's forest than during pre-settlement times. Mixed hardwood/conifer stands appear to be less prevalent. This is an extremely diverse compartment consisting of a mosaic of various small stands and habitat types. Wildlife habitat objectives in this compartment include maintaining age-class and structural diversity between aspen stands, maintaining cedar and other lowland types, and enhancing the conifer component. Wildlife species with the potential to benefit from the prescriptions include ruffed grouse, white-tailed deer, American woodcock, snowshoe hare, bobcat, black bear. Garter snake, American toad, and black-capped chickadee.

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

Surface sediments consist of primarily peat and muck. The glacial drift thickness varies between 10 and 50 feet. The Silurian Engadine and Manistique Groups subcrop below the glacial drift. The Engadine is quarried for stone/limestone one mile to the east. Gravel pits are located in Section 32 and there is potential on the upland areas. There is no current economic oil and gas production in the UP. Graymont, Inc. has submitted a proposal to the Department of Natural Resources to acquire more than 10,000 acres of state-managed forest in northern Mackinac County near the town of Rexton for the purpose of developing a limestone mine. Of the 10,000 acres, about 1,136 are within this compartment.

### **Vehicle Access:**

Hiawatha Trail and Trout Lake Road, both paved county roads, bisect the compartment. Fiborn Quarry Road, a gravel county road, heads north from Trout Lake Road; and Fisher Road, a gravel/dirt county road, heads west from Trout Lake Road. A few short two-track woods roads are also present, heading off Hiawatha Trail and Trout Lake Road, giving some additional access. A few of these are newer roads made during timber sales which have been blocked to vehicle access.

### **Survey Needs:**

Survey corners would be needed for stand 5 and 25 adjacent to private land. Specifically, the two north 1/16th of SENW section 28.

### **Recreational Facilities and Opportunities:**

Dedicated Brevort-Trout Lake motorcycle trail and snowmobile trail run through the compartment, primarily along Trout Lake Road and Fisher Road. The snowmobile trail splits at the railroad crossing, heading east to Trout Lake also. The area is used for hunting deer, bear and small game. Trapping occurs along the South Branch Hendrie River.

### **Fire Protection:**

While fire potential is relatively low for the area due to the large amount of bogs and swamp types, the primary danger could occur along the railroad, power lines, and adjacent homes and camps.

### **Additional Compartment Information:**

In 1990, experimental oak planting occurred in the north west corner of stand 7. Several other tree species are growing in and a treatment to release the oaks is being recommended this cycle with the cut down trees placed to provide a barrier against browsing.

### **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 & Treatment Map

Compartment: 135  
 T44N R07W Sections 27, 28, 32, 33  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Management Area: Mackinac Mix  
 YOE: 2016  
 Acres: 2,063 GIS Calculated  
 Examiner: Dan Beaudo  
 Map Revised: 08/08/2014  
 Map Phase: Pre-Review

**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

### Legend

- Miris Corners
- Remonumented Section Corners
- DNR Survey Grade Corner
- PLSS Corner
- GPS Point
- Unclassified Corners
- Gate
- Berms
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Railroads
- Pipeline
- Motorcycle (DNR License)
- Snowmobile Trail
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

### Treatments

- Other Treatment - See Comments
- Thinning (Crown, Low, Systematic)
- Clearcut (w/Reserves, Patch/Strip)
- Selection (Group, Single Tree)
- Treatments w/ Site Condition

### Forest Stands

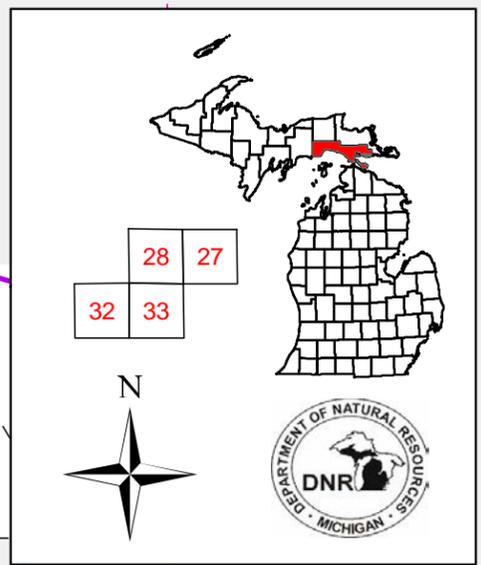
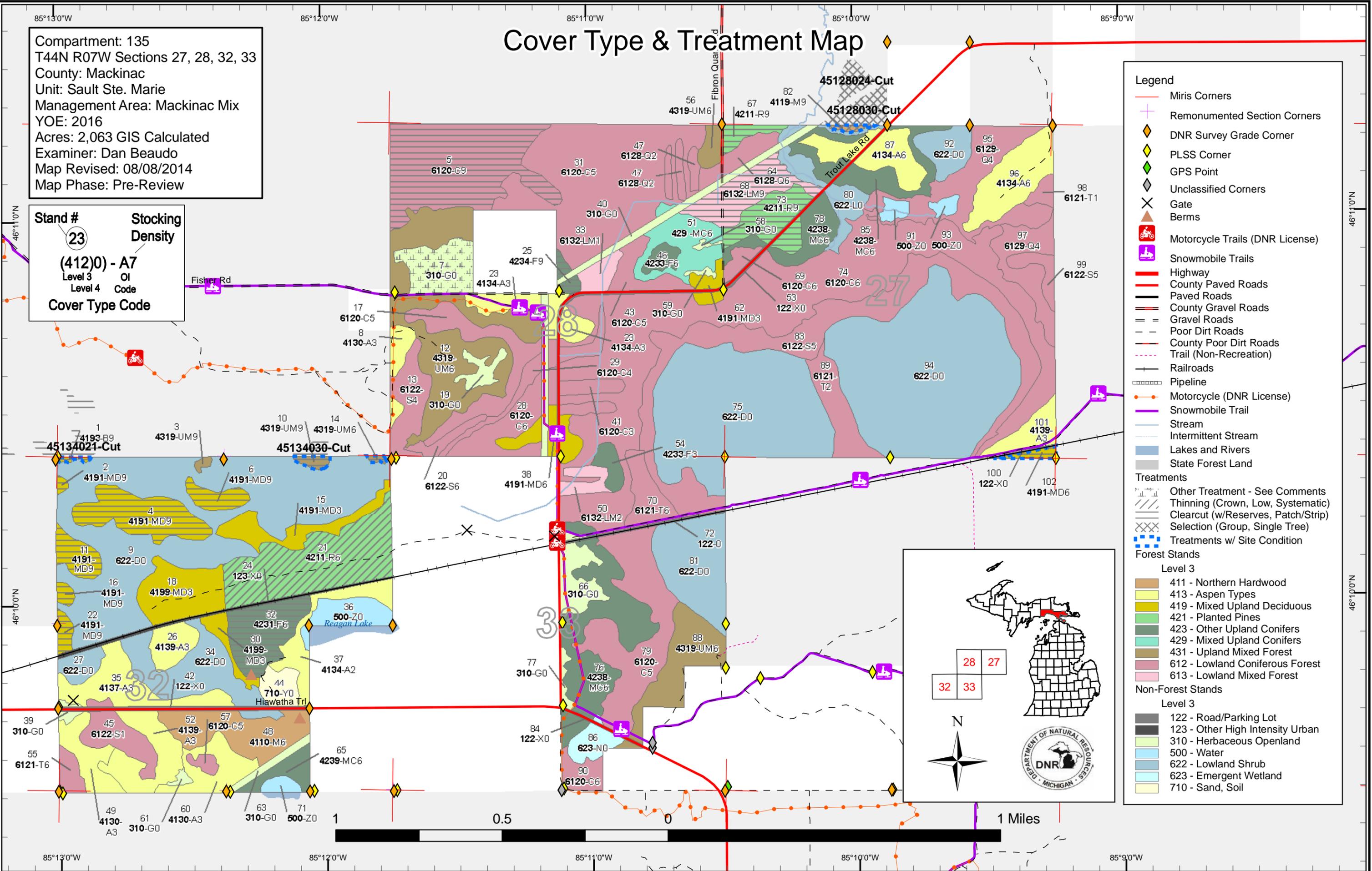
**Level 3**

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

**Non-Forest Stands**

**Level 3**

- 122 - Road/Parking Lot
- 123 - Other High Intensity Urban
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil



# Stand Boundary Map

Compartment: 135  
 T44N R07W Sections 27, 28, 32, 33  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Management Area: Mackinac Mix  
 YOE: 2016  
 Acres: 2,063 GIS Calculated  
 Examiner: Dan Beaudo  
 Map Revised: 08/08/2014  
 Map Phase: Pre-Review

**Stand #**  
 23  
**Stocking Density**  
 (4120) - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**

**Legend**

- Miris Corners
- Remonumented Section Corners
- DNR Survey Grade Corner
- PLSS Corner
- Unclassified Corners
- GPS Point
- Gate
- Berms
- Motorcycle Trails (DNR License)
- Snowmobile Trails
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Railroads
- Powerline
- Motorcycle (DNR License)
- Snowmobile Trail
- Stream
- Intermittent Stream
- Stand Boundaries

**Forest Stands**

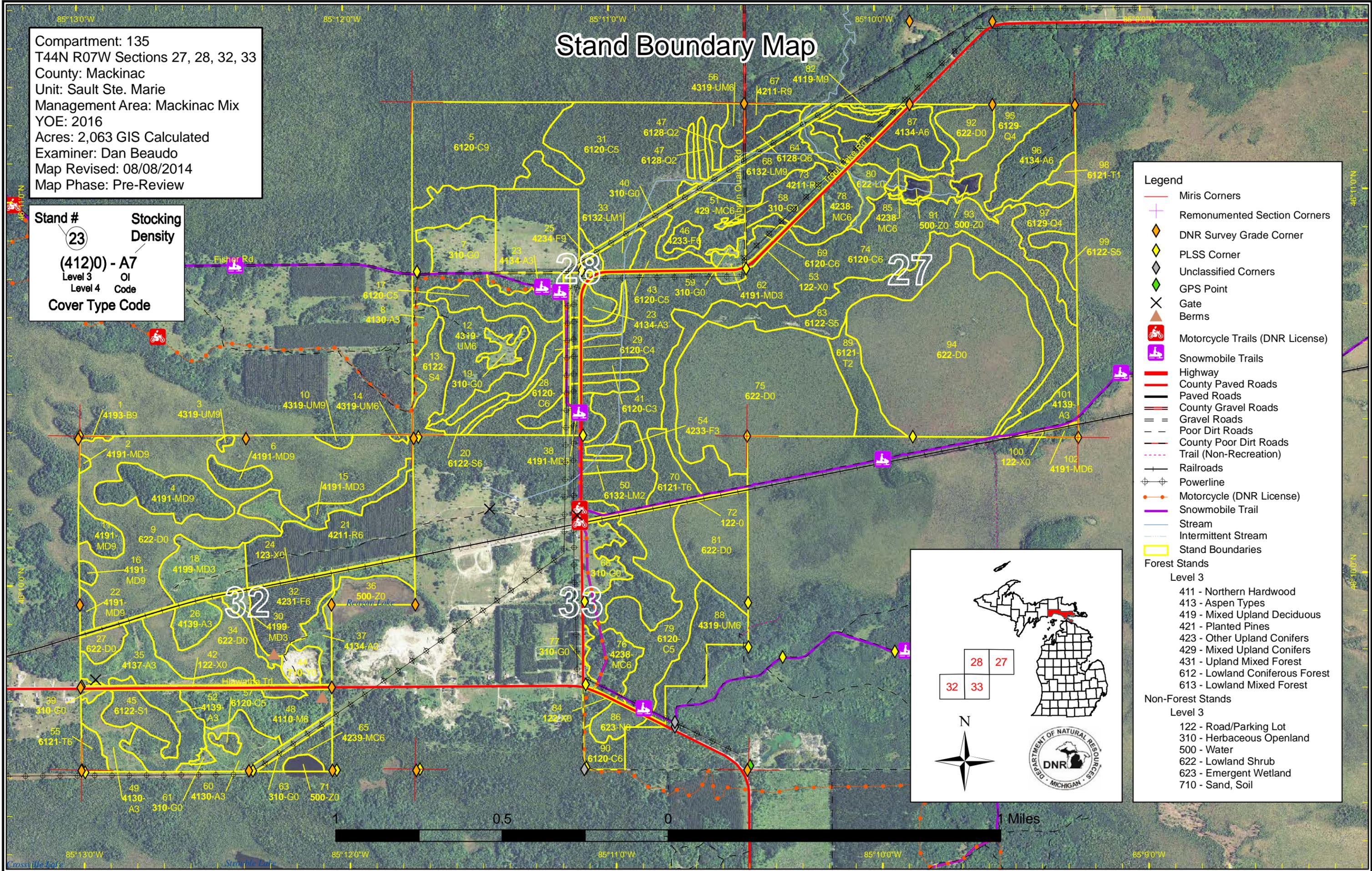
**Level 3**

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

**Non-Forest Stands**

**Level 3**

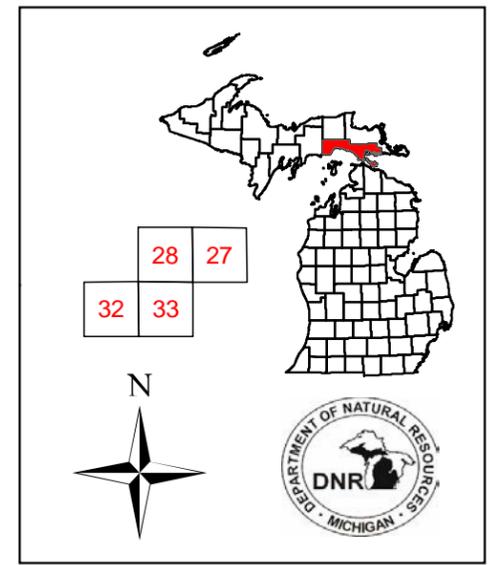
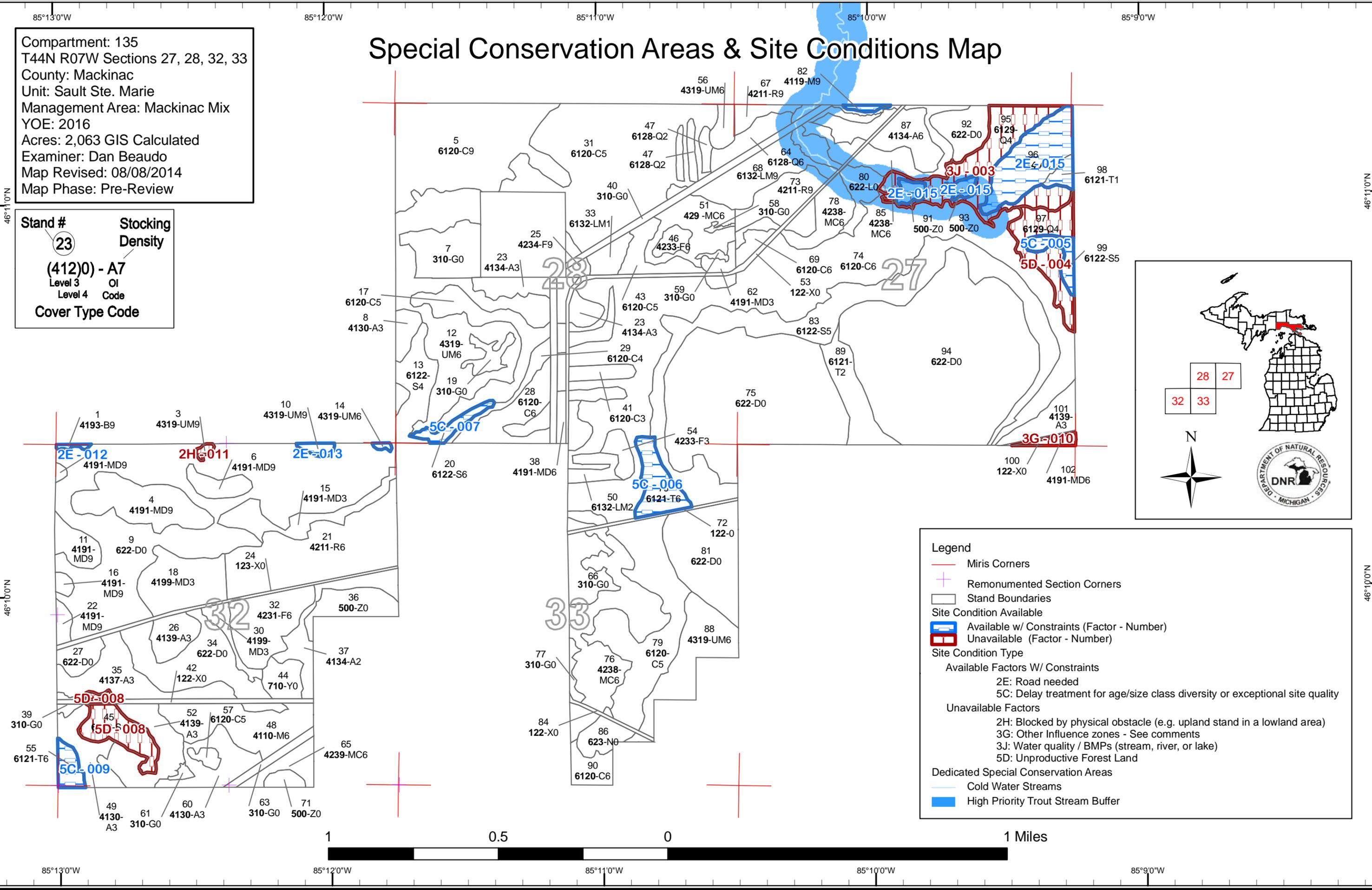
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil



# Special Conservation Areas & Site Conditions Map

Compartment: 135  
 T44N R07W Sections 27, 28, 32, 33  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Management Area: Mackinac Mix  
 YOE: 2016  
 Acres: 2,063 GIS Calculated  
 Examiner: Dan Beaudou  
 Map Revised: 08/08/2014  
 Map Phase: Pre-Review

**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



**Legend**

- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- Site Condition Available
- ▬ Available w/ Constraints (Factor - Number)
- ▬ Unavailable (Factor - Number)
- Site Condition Type
- Available Factors W/ Constraints
- 2E: Road needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable Factors
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Dedicated Special Conservation Areas
- Cold Water Streams
- High Priority Trout Stream Buffer



85°13'0"W 85°12'0"W 85°11'0"W 85°10'0"W 85°9'0"W

46°11'0"N 46°10'0"N 46°9'0"N

Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	90	41	0	20	25	0	0	0	0	0	0	0	0	0	176
Cedar	0	0	0	9	0	0	0	70	20	0	0	292	0	111	501
Herbaceous Openland	67	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Lowland Conifers	0	0	0	7	0	0	0	0	0	19	0	35	0	9	71
Lowland Mixed Forest	0	0	0	6	0	0	0	0	0	6	0	0	0	22	34
Lowland Shrub	16	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Lowland Spruce/Fir	0	0	0	0	0	0	0	81	5	0	0	21	0	16	122
Marsh	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	50	0	0	0	11	0	0	0	0	0	0	0	0	51	111
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
Paper Birch	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
Red Pine	0	0	0	0	0	55	0	24	0	0	0	0	0	0	79
Sand, Soil	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Tamarack	0	0	0	17	0	0	0	0	13	0	0	9	0	0	38
Treed Bog	497	0	0	0	0	0	0	0	0	0	0	0	0	0	497
Upland Conifers	0	0	67	30	15	0	0	0	0	0	0	0	0	0	112
Upland Mixed Forest	0	27	69	5	0	0	0	0	2	0	0	0	0	2	105
Upland Spruce/Fir	0	0	0	10	0	24	0	0	0	0	0	0	0	3	37
Urban	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Water	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
<b>Total</b>	<b>785</b>	<b>68</b>	<b>136</b>	<b>104</b>	<b>51</b>	<b>79</b>	<b>0</b>	<b>175</b>	<b>40</b>	<b>26</b>	<b>0</b>	<b>357</b>	<b>0</b>	<b>244</b>	<b>2063</b>



## Report 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit  
Year of Entry 2016

Compartment 135  
Total Compartment Acres: 2,063

### Acres by Treatment Type

Commercial Harvest - 253    Tree Planting - 48    Other - 20  
Habitat Cut - 0    Opening Maintenance - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Lowland Coniferous Forest	70	0	0	0	0	0	70
Lowland Mixed Forest	22	0	0	0	0	0	22
Mixed Upland Deciduous	51	0	0	0	0	0	51
Northern Hardwood	0	1	0	0	0	0	1
Other Upland Conifers	28	0	0	0	0	0	28
Planted Pines	24	0	0	0	55	0	79
Upland Mixed Forest	3	0	0	0	0	0	3
<b>Total</b>	<b>197</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>55</b>	<b>0</b>	<b>253</b>

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
24 45128024-Cut	5.4	4112 - Maple, Beech, Cherry Association	High Density Pole	80	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal

Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present.

Other  
Comments:

Next  
Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, basswood, aspen, fir and ironwood.

Proposed  
Start Date: 10/01/2015

30 45128030-Cut	8.8	4112 - Maple, Beech, Cherry Association	High Density Pole	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
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Prescription Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry and conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present.

Other  
Comments:

Next  
Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, basswood, aspen, fir and ironwood.

Proposed  
Start Date: 10/01/2015

21 45134021-Cut	6.5	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	83	111-140	Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
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Prescription Clearcut with reserves following the retention guidelines. Leave some larger paper birch and white pine for seed trees and future snags. Leave some other scattered trees representative of the stand. Winter cut only and access must be frozen.

Other  
Comments: Access will be winter only and dependent upon adequate freezing conditions. This stand is part of a larger stand in compartment 134 that is factor limited due to being surrounded by spruce bog. Include that stand in with this cut.

Next  
Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.

Proposed  
Start Date: 10/01/2011

30 45134030-Cut	2.6	4191 - Mixed Upland Deciduous with Conifer	High Density Log	84	171-200	Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
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Prescription Clearcut with reserves following the retention guidelines. Leave some larger paper birch and white pine for seed trees and future snags. Leave some other scattered trees representative of the stand. Winter cut only and access must be frozen.

Other  
Comments: Access will be winter only and dependent upon adequate freezing conditions. This stand is part of a stand in compartment 135 that is factor limited due to being surrounded by spruce bog. Include that stand in with this cut.

Next  
Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.

Proposed  
Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	45135002-Cut	0.9	4191 - Mixed Upland Deciduous with Conifer	High Density Log	87		Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with reserves following the retention guidelines. Leave some larger paper birch and white pine for seed trees and future snags. Leave some other scattered trees representative of the stand. Winter cut only and access must be frozen.</p> <p><u>Specs:</u></p> <p><u>Other</u> Access will be winter only and dependent upon adequate freezing conditions. This stand is part of a larger stand in compartment 148 that is factor limited due to being surrounded by spruce bog. Include that stand in with this cut.</p> <p><u>Comments:</u></p> <p><u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2015</p>										
4	45135004-Cut	26.7	4191 - Mixed Upland Deciduous with Conifer	High Density Log	88		Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with reserves following the retention guidelines. Leave some larger paper birch and white pine for seed trees and future snags. Leave some other scattered trees representative of the stand. Winter cut only and access must be frozen.</p> <p><u>Specs:</u></p> <p><u>Other</u> Access will be winter only and dependent upon adequate freezing conditions.</p> <p><u>Comments:</u></p> <p><u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2015</p>										
5	45135005-Cut	70.0	6120 - Lowland Cedar	High Density Log	75		Harvest	Patch or Strip Clearcut	612 - Lowland Coniferous Forest	Cmpt. Review Proposal
<p><u>Prescription</u> Cut cedar in strips 2-3 chains in width alternating between clearcut and shelterwood. In the clearcut strips, cut all deciduous 2" or more and conifer 4" or more. In the shelterwood strips leave a basal area of 50-60 square feet per acre of uniformly spaced dominant and codominant cedar, tamarack and black spruce for seed trees. Harvest during winter to provide deer browse. Align strips in north/south direction for seed dispersal and maximize sunlight heating seed bed.</p> <p><u>Specs:</u></p> <p><u>Other</u></p> <p><u>Comments:</u></p> <p><u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2015</p>										
6	45135006-Cut	7.0	4191 - Mixed Upland Deciduous with Conifer	High Density Log	87		Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with reserves following the retention guidelines. Leave some larger paper birch and white pine for seed trees and future snags. Leave some other scattered trees representative of the stand. Winter cut only and access must be frozen.</p> <p><u>Specs:</u></p> <p><u>Other</u> Access will be winter only, dependent upon adequate freezing conditions and through private property.</p> <p><u>Comments:</u></p> <p><u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.</p> <p><u>Steps:</u></p> <p><u>Proposed</u></p> <p><u>Start Date:</u> 10/01/2015</p>										

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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
11 45135011-Cut	8.7	4191 - Mixed Upland Deciduous with Conifer	High Density Log	87	81-110	Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal

Prescription Clearcut with reserves following the retention guidelines. Leave some larger paper birch and white pine for seed trees and future snags. Leave some other scattered trees representative of the stand. Winter cut only and access must be frozen.

Other Comments: Access will be winter only and dependent upon adequate freezing conditions. This stand is part of a larger stand in compartment 148 that is factor limited due to being surrounded by spruce bog. Include that stand in with this cut.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.

Proposed Start Date: 10/01/2015

16 45135016-Cut	1.9	4191 - Mixed Upland Deciduous with Conifer	High Density Log	87		Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
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Prescription Access will be winter only and dependent upon adequate freezing conditions. This stand is part of a larger stand in compartment 148 that is factor limited due to being surrounded by spruce bog. Include that stand in with this cut.

Other Comments: Access will be winter only and dependent upon adequate freezing conditions. This stand is part of a larger stand in compartment 134 that is factor limited due to being surrounded by spruce bog. Include that stand in with this cut.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.

Proposed Start Date: 10/01/2015

21 45135021-Cut	54.7	42110 - Planted Red Pine	High Density Pole	51	200+	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.

Specs:

Other Comments: Access to this stand is through private property.

Next Steps:

Proposed Start Date: 10/01/2015

22 45135022-Cut	3.2	4191 - Mixed Upland Deciduous with Conifer	High Density Log	87		Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
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Prescription Clearcut with reserves following the retention guidelines. Leave some larger paper birch and white pine for seed trees and future snags. Leave some other scattered trees representative of the stand. Winter cut only and access must be frozen.

Other Comments: Access will be winter only and dependent upon adequate freezing conditions. This stand is part of a larger stand in compartment 148 that is factor limited due to being surrounded by spruce bog. Include that stand in with this cut.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.

Proposed Start Date: 10/01/2015



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
25	45135025-Cut	3.3	42340 - Upland Spruce/Fir	High Density Log	52		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
<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 <u>Specs:</u> acre). <u>Other</u> <u>Comments:</u> <u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and <u>Steps:</u> paper birch, balsam fir, white spruce, black spruce and white pine. <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
32	45135032-Cut	24.3	42310 - Planted Spruce	High Density Pole	51	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Cut all trees 2" or more in dbh to better facilitate trenching, planting and spraying. Standing trees within the stand after harvest create a hazard <u>Specs:</u> for aerial spraying of the stand for release and pest management. Require 2/3 to 5/6 slash removal by contractor. <u>Other</u> Stand conversion from white spruce to red pine. <u>Comments:</u> <u>Next</u> After harvest treatment is completed, the stand may be prescribed burned if necessary for site prep depending on amount of slash left on site. <u>Steps:</u> Trenching and hand planting of red pine seedling to acceptable regeneration levels will need to be completed within 2 years of the Timber Cutting Report date. After establishment of red pine regeneration, regeneration surveys need to be scheduled for 1 year and 3 years for monitoring of regeneration. Release as necessary determined by TMS. <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
67	45135067-Cut	5.0	42110 - Planted Red Pine	High Density Log	74	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Cut all trees 2" or more in dbh to better facilitate trenching, planting and spraying. Standing trees within the stand after harvest create a hazard <u>Specs:</u> for aerial spraying of the stand for release and pest management. Require 2/3 to 5/6 slash removal by contractor. No cut within 100 feet of South Br. Hendrie River. <u>Other</u> <u>Comments:</u> <u>Next</u> Trenching and hand planting of red pine seedling to acceptable regeneration levels will need to be completed within 2 years of the Timber Cutting <u>Steps:</u> Report date. After establishment of red pine regeneration, regeneration surveys need to be scheduled for 1 year and 3 years for monitoring of regeneration. Release as necessary determined by TMS. <u>Proposed</u> <u>Start Date:</u> 10/01/2015										
68	45135068-Cut	21.8	6132 - Mixed Lowland Forest with Cedar	High Density Log	79		Harvest	Clearcut with Reserves	6132 - Mixed Lowland Forest with Cedar	Cmpt. Review Proposal
<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 <u>Specs:</u> acre). Stay out of patches of thick cedar, do not cut cedar or hemlock unless it is required for operation. Cut only during winter or dry summer. No cut within 200 feet of South Br. Hendrie River along north east side of stand. Maintain a 50 foot no cut buffer along the drainage ditch within the stand. <u>Other</u> no cut within 200 feet of stream <u>Comments:</u> <u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and <u>Steps:</u> paper birch, balsam fir, white spruce, black spruce, tamarack and white pine. <u>Proposed</u> <u>Start Date:</u> 10/01/2015										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
73	45135073-Cut	19.0	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	74	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Cut all trees 2" or more in dbh to better facilitate trenching, planting and spraying. Standing trees within the stand after harvest create a hazard										
<u>Specs:</u> for aerial spraying of the stand for release and pest management. Require 2/3 to 5/6 slash removal by contractor. No cut within 100 feet of South Br. Hendrie River.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Trenching and hand planting of red pine seedling to acceptable regeneration levels will need to be completed within 2 years of the Timber Cutting										
<u>Steps:</u> Report date. After establishment of red pine regeneration, regeneration surveys need to be scheduled for 1 year and 3 years for monitoring of regeneration. Release as necessary determined by TMS.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										
62	45149062-Cut	2.2	4140 - Other Upland Deciduous	High Density Pole	74		Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves following the retention guideline. Leave some paper birch for seed trees and future snags. Leave some scattered trees										
<u>Specs:</u> representative of the stand. Winter cut only and access must be frozen.										
<u>Other</u> Access will be winter only and dependent upon adequate freezing conditions.										
<u>Comments:</u>										
<u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cedar, yellow and paper										
<u>Steps:</u> birch, balsam fir, white spruce, black spruce and white pine.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2012										
66	45149066-Cut	1.6	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	74		Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
<u>Prescription</u> Clearcut with reserves following the retention guideline. Leave some paper birch for seed trees and future snags. Leave some scattered trees										
<u>Specs:</u> representative of the stand. Winter cut only and access must be frozen.										
<u>Other</u> Access will be winter only and dependent upon adequate freezing conditions.										
<u>Comments:</u>										
<u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cedar, yellow and paper										
<u>Steps:</u> birch, balsam fir, white spruce, black spruce and white pine.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2012										
7	NF_45135007- Other	19.6	3105 - Mixed Upland Herbaceous				Other	Other - Specify	3105 - Mixed Upland Herbaceous	Cmpt. Review Proposal
<u>Prescription</u> North west corner of stand is a half acre planting of red oak. Cut down all competition trees and shrubs allowing/placing next to oak sapling to										
<u>Specs:</u> create obstacle for deer to inhibit browsing/rubbing on the oak saplings.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2015										

**Total Treatment  
Acreage Proposed: 293.2**



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	45135001-Cut	0.7	4193 - Birch, Aspen	High Density Log	87		Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with reserves following the retention guidelines. Leave some larger paper birch and white pine for seed trees and future snags. Leave <u>Specs:</u> some other scattered trees representative of the stand. Winter cut only and access must be frozen.</p> <p><u>Other</u> <u>Comment:</u> Access will be winter only and dependent upon adequate freezing conditions. This stand is part of a larger stand in compartment 134 that is factor limited due to being surrounded by spruce bog. Include that stand in with this cut.</p> <p><u>Next</u> <u>Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</p> <p><u>Limiting Factor</u> 2E: Road needed</p>										
10	45135010-Cut	2.1	4319 - Mixed Upland Forest	High Density Log	85	81-110	Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut with reserves following the retention guidelines. Leave some larger paper birch and white pine for seed trees and future snags. Leave <u>Specs:</u> some other scattered trees representative of the stand. Winter cut only and access must be frozen.</p> <p><u>Other</u> <u>Comment:</u> Access will be winter only and dependent upon adequate freezing conditions. This stand is part of a larger stand in compartment 134 that is factor limited due to being surrounded by spruce bog. Include that stand in with this cut.</p> <p><u>Next</u> <u>Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</p> <p><u>Limiting Factor</u> 2E: Road needed</p>										
14	45135014-Cut	0.6	4319 - Mixed Upland Forest	High Density Pole	85	81-110	Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal
<p><u>Prescription</u> Access will be winter only and dependent upon adequate freezing conditions. This stand is part of a larger stand in compartment 134 that is <u>Specs:</u> factor limited due to being surrounded by spruce bog. Include that stand in with this cut.</p> <p><u>Other</u> <u>Comment:</u> Access will be winter only and dependent upon adequate freezing conditions. This stand is part of a larger stand in compartment 134 that is factor limited due to being surrounded by spruce bog. Include that stand in with this cut.</p> <p><u>Next</u> <u>Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</p> <p><u>Limiting Factor</u> 2E: Road needed</p>										
82	45135082-Cut	1.2	4119 - Mixed Northern Hardwoods	High Density Log	90	111- 140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Cmpt. Review Proposal
<p><u>Prescription</u> Mark stand to 80 to 90 Basal Area. Retain some beech with the smooth bark and wildlife trees. Some ironwood, basswood and all junberry and <u>Specs:</u> conifer should be left. Some larger canopy gaps may be desirable around the cherry and yellow birch if possible to regenerate those species and enhance the advanced regeneration present.</p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Next</u> <u>Steps:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, basswood, aspen, fir and ironwood.</p> <p><u>Proposed</u> <u>Start Date:</u> 10/01/2015</p> <p><u>Limiting Factor</u> 2E: Road needed</p>										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
102	45135102-Cut	2.3	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	89		Harvest	Clearcut with Reserves	4137 - Aspen, Birch	Cmpt. Review Proposal

Prescription Specs: 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).

Other Comment: Only access across railroad tracks.

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce, tamarack and white pine.

Proposed Start Date: 10/01/2015

Limiting Factor 3G: Other Influence zones - See comments

**Total Treatment  
Acreage Proposed: 6.9**

## Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Dan Beaudou : Examiner

Compartment 135

Year of Entry 2016

### Availability for Management

Availability for Management			Dominant Site Conditions							
Total Acres	Acres Available	Acres Not Available		No	5D	5C	3J	3G	2H	2E
176	176		Aspen	151						25
501	501		Cedar	501						
71	16	55	Lowland Conifers	16	19		35			
34	34		Lowland Mixed Forest	34						
122	107	15	Lowland Spruce/Fir	97	15	10				
111	109	2	Mixed Upland Deciduous	109				2		
30	30		Northern Hardwood	29						1
1	1		Paper Birch							1
79	79		Red Pine	79						
38	38		Tamarack	17		18				3
112	112		Upland Conifers	112						
105	104	1	Upland Mixed Forest	101					1	3
37	37		Upland Spruce/Fir	37						
1,418	1,345	73	Total Forested Acres	1,283	34	28	35	2	1	33
	95%	5%	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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
003	Not Available	3J: Water quality / BMPs (stream, river, or lake)	35				
<b>Comments:</b>							
004	Not Available	5D: Unproductive Forest Land	19				
<b>Comments:</b>							

**Report 5 – Site Conditions**

Sault Ste. Marie Mgt. Unit

Compartment 135

Dan Beaudou : Examiner

Year of Entry 2016

005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	
<b>Comments:</b>				
006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	
<b>Comments:</b>				
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	
<b>Comments:</b>				
008	Not Available	5D: Unproductive Forest Land	15	
<b>Comments:</b>				
009	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	
<b>Comments:</b>				
010	Not Available	3G: Other Influence zones - See comments	2	
<b>Comments:</b> No railroad crossing available				

011	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1
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Comments:

012	Available	2E: Road needed	1
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Comments:

013	Available	2E: Road needed	2
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Comments:

014	Available	2E: Road needed	1
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Comments:

015	Available	2E: Road needed	35
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Comments:



### 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
<b>Comments</b>				

**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

<b>Conservation Area</b>	<b>Type</b>	<b>Description</b>
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.
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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Sault Ste. Marie Mgt. Unit		Report 8 – Forested Stands			Compartment: 135 Year of Entry: 2016	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
1	4193 - Birch, Aspen	High Density Log	0.7	87		This small stand is part of a larger stand in the adjacent compartments of 134 and 149. It is surrounded by a treed bog.	
2	4191 - Mixed Upland Deciduous with Conifer	High Density Log	0.9	Uneven Age		This small stand is part of a larger stand in adjacent compartment 148. It is a mature birch and aspen stand that should be harvested is accessible.	
3	4319 - Mixed Upland Forest	High Density Log	1.0	Uneven Age		This is part of a larger stand in adjacent compartment 134. It is a mature birch/aspen mix stand that would meet criteria to cut.	
4	4191 - Mixed Upland Deciduous with Conifer	High Density Log	26.7	Uneven Age		Over mature stand with large paper birch and balsam fir in decline and aspen starting to show conks.	
5	6120 - Lowland Cedar	High Density Log	70.0	75		Nice northern white cedar stand with tamarack and black spruce mixed in.	
6	4191 - Mixed Upland Deciduous with Conifer	High Density Log	7.0	Uneven Age		This stand is a mature birch/aspen mix that is on the decline.	
8	4130 - Aspen	High Density Sapling	6.7	4		This stand is part of a larger stand in adjacent compartment 134 that was clear cut in 2007. Good regeneration with thick stocking levels.	
10	4319 - Mixed Upland Forest	High Density Log	2.1	85	81-110	This is part of a larger stand in the adjacent compartment 134. Majority of trees are paper birch and white pine with a mix of fir and other deciduous.	
11	4191 - Mixed Upland Deciduous with Conifer	High Density Log	8.7	Uneven Age	81-110	A mature stand with paper birch and aspen making up the majority of species with larger balsam fir blowing over. This stand continues into the adjacent compartment 148 and surrounded by treed bog.	
12	4319 - Mixed Upland Forest	High Density Pole	69.3	24		This stand was cut in 1990 with retention trees being of bigger diameter now.	
13	6122 - Black Spruce	Low Density Pole	16.2	Uneven Age		This is a black spruce bog containing black spruce and tamarack with balsam fire and white pine on the edge.	
14	4319 - Mixed Upland Forest	High Density Pole	0.6	Uneven Age	81-110	This is a small stand that is part of a larger stand in adjacent compartment 134. Species mix of aspen, birch, fir and pine.	
15	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	15.4	7		This stand was clearcut in 2007 with retention trees being a little bigger than the regeneration. There is good, dense regeneration 15-20' tall.	
16	4191 - Mixed Upland Deciduous with Conifer	High Density Log	1.9	Uneven Age		This is a smaller part of a larger stand in the adjacent compartment 148. This is a mature stand that should be harvested is accessible.	
17	6120 - Lowland Cedar	Medium Density Pole	24.3	Uneven Age		A poor quality lowland cedar stand that is open with a variable height of cedar.	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	4199 - Other Mixed Upland Deciduous	High Density Sapling	24.2	7		This was a spruce plantation that had been clearcut in 2007 with retention including large white pine north east part of stand. Good regeneration of mixed deciduous trees and paper birch stump sprouting.
20	6122 - Black Spruce	High Density Pole	4.6	84		This is a nice pole size black spruce stand. Not real feasible to cut at this time due to small acreage and no other harvestable stands in vicinity.
21	42110 - Planted Red Pine	High Density Pole	54.7	51	200+	A red pine plantation that is ready for a second thinning. The initial thinning was conducted in 1999 with the removal of every third row. The canopy is almost fully closed back in and basal area up in the criteria needs for thinning.
22	4191 - Mixed Upland Deciduous with Conifer	High Density Log	3.2	Uneven Age		This is part of a larger stand in adjacent compartment 148. It is a mature birch/aspens mix that could be cut with adjacent compartment stands.
23	4134 - Aspen, Spruce/Fir	High Density Sapling	15.4	7		This stand was clearcut in 2007 with retention. There is good regeneration of a variety of species.
25	42340 - Upland Spruce/Fir	High Density Log	3.3	Uneven Age		This is an upland stand where the adjacent stand is lowland. Meets criteria to cut but small size acreage might not make it feasible.
26	4139 - Aspen, Mixed Deciduous	High Density Sapling	9.7	12		Stand was clear cut in 2002. There is good, thick regeneration of mixed species.
28	6120 - Lowland Cedar	High Density Pole	19.5	84		This is a semi thick cedar stand with shorter trees.
29	6120 - Lowland Cedar	Low Density Pole	11.8	Uneven Age		This is a drainage with scattered dead and live northern white cedar with some tipped over.
30	4199 - Other Mixed Upland Deciduous	High Density Sapling	5.2	7		This stand was clear cut in 2007 with good, mixed regeneration showing up now.
31	6120 - Lowland Cedar	Medium Density Pole	98.1	112		Semi thick northern white cedar stand that seems slightly wetter than the typical thick, nice cedar stand.
32	42310 - Planted Spruce	High Density Pole	24.3	51	111-140	This white spruce stand was planted in 1963 and third row thinned in 2007.
33	6132 - Mixed Lowland Forest with Cedar	Low Density Sapling	6.2	92		Lowland stand that contains large sapling size swamp birch and mixed conifers.
35	4137 - Aspen, Birch	High Density Sapling	24.2	7		Stand was clearcut in 2007 with good, dense stocking of regeneration that is 10-20' tall
37	4134 - Aspen, Spruce/Fir	Medium Density	15.1	7		Stand was clear cut in 2007. Some retention trees/cedar scattered through out are bigger in size.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	10.7	45		Stand is a good mix of deciduous and conifers close to maturity.
41	6120 - Lowland Cedar	High Density Sapling	8.9	37		There is northern white cedar regeneration that range in height from 0-15' tall. Balsam fir seems to be dying off. Both strips were cut in 1977.
43	6120 - Lowland Cedar	Medium Density Pole	10.2	Uneven Age		A poor quality northern white cedar stand with tamarack and blue spruce mixed in.
45	6122 - Black Spruce	Low Density Sapling	14.9	114		Center of stand resembles a treed bog with perimeter containing larger size black spruce, tamarack and white pine,
46	42330 - Upland Fir	High Density Pole	4.3	33		Nice stand of balsam fir with aspen and maple mixed in.
47	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density	7.1	35		Stand comprised of three strip cuts in 1979. Mixed regeneration but there is some cedar seedlings poking threw the snow but hare and deer browsing on them.
48	4110 - Sugar Maple Association	High Density Pole	29.0	Uneven Age	81-110	The stand was thinned in 2001. The sugar maple is mostly pole size with some log trees. There is a thick balsam understory.
49	4130 - Aspen	High Density Sapling	13.0	7		Stand was clearcut in 2007. Good regeneration with aspen and cherry now about 10-15' tall. Balsam fir is 1-2' and some scattered 20'. White pine few scattered 50' and mix size.
50	6132 - Mixed Lowland Forest with Cedar	Medium Density	6.2	34		This stand is a strip cut from 1980 that produced a variety of seedlings including northern white cedar 0-15' tall.
51	429 - Mixed Upland Conifers	High Density Pole	20.4	28		Stand was cut in 1986. Nice mix of species and good stocking density.
52	4139 - Aspen, Mixed Deciduous	High Density Sapling	20.2	12		This stand was clear cut in 2002 with saplings 20-30' tall and good stocking level.
54	42330 - Upland Fir	High Density Sapling	5.2	32		Nice balsam fir stand with some large red maple above the rest that must have been left when cut in 1982. Rest of trees are in the 10-30 foot tall range with thick stocking level.
55	6121 - Tamarack	High Density Pole	5.3	114		Stand has a mix of conifer species that are variable in size.
56	4319 - Mixed Upland Forest	High Density Pole	4.8	30		Mixture of paper birch, aspen, balsam fir and white spruce as major components.
57	6120 - Lowland Cedar	Medium Density Pole	2.5	Uneven Age		This is a small lowland stand that was excluded from the surrounding upland clearcut in 2007.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	4130 - Aspen	High Density Sapling	15.3	7		This stand was clearcut in 2007 with good regeneration now. The center was not cut because it is a pocket of northern white cedar lowland that now has a stand number 114.
62	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	5.2	7		This stand was clear cut in 2007 with good regeneration 10-15' tall.
64	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	9.2	Uneven Age		Nice mixed stand with major component being northern white cedar.
65	42390 - Mixed Non-Pine Upland Conifers	High Density Pole	7.9	37	81-110	This stand is a mix of upland with some lowland associated closer to the lake.
67	42110 - Planted Red Pine	High Density Log	5.0	74	141-170	This red pine plantation was planted in 1940 and last thinned in 1998.
68	6132 - Mixed Lowland Forest with Cedar	High Density Log	21.8	Uneven Age		Nice looking thick stand with trees at maturity and starting to decline.
69	6120 - Lowland Cedar	High Density Pole	3.8	Uneven Age		Stand contains mostly northern white cedar with some dead tops.
70	6121 - Tamarack	High Density Pole	12.8	80		Nice stand of well stocked pole size tamarack looking healthy.
73	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	19.0	74	111-140	This red pine plantation was planted in 1940 and now contains other mixed species within it.
74	6120 - Lowland Cedar	High Density Pole	193.9	114		Nice mixed cedar stand.
76	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	46.5	29		Mixed stand with a variability in size.
78	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	15.3	40		This is a mixed upland stand where the maple species are older then the fir and spruce.
79	6120 - Lowland Cedar	Medium Density Pole	50.5	Uneven Age		This is not a very dense cedar stand. There are some dead tops and snags. Tag alder mixed in open areas. Tamarack and black spruce in pockets. Cedar leaning/crooked and dead looking on north end.
82	4119 - Mixed Northern Hardwoods	High Density Log	1.2	Uneven Age	111-140	Small stand that is part of a larger stand in adjacent compartment that contains mixed hardwood and could use a thinning.
83	6122 - Black Spruce	Medium Density Pole	80.8	70		This stand appears to be forming as edge of bog slowly seeds in.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
85	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	21.7	30		This is a thick, mixed stand with more conifer component than stand 87.
87	4134 - Aspen, Spruce/Fir	High Density Pole	20.4	30		Nice aspen stand with mixed diversity that regenerated from a cut in 1984. There is a small stand of younger aged aspen along H40 toward north end where a small sale took place in 1998 to cut a buffer stripe.
88	4319 - Mixed Upland Forest	High Density Pole	27.2	17		This stand was clear cut in 1997 and has since regenerated very well. There are two small A6 pockets within this stand that were A3 at time of clearcut.
89	6121 - Tamarack	Medium Density	17.0	37		Tamarack and black spruce seeding in along/between bog.
90	6120 - Lowland Cedar	High Density Pole	7.7	Uneven Age		Stand has thick cedar with tamarack and black spruce mixed in with occasional pockets of white birch and balsam fir.
95	6129 - Mixed Coniferous Lowland Forest	Low Density Pole	35.3	114		This is a large drainage area with a small creek and old beaver dams. Tree species vary through out the drainage.
96	4134 - Aspen, Spruce/Fir	High Density Pole	25.3	41		This stand was cut in 1973. There is a variable size in Aspen with most less than 12 inch dbh but some 16-18".
97	6129 - Mixed Coniferous Lowland Forest	Low Density Pole	19.4	99		This is a more open lowland stand that has scattered tamarack and northern white cedar of mixed sizes.
98	6121 - Tamarack	Low Density Sapling	3.4	114		This is a more open lowland stand with mixed tamarack, black spruce and pine.
99	6122 - Black Spruce	Medium Density Pole	5.8	114		Nice pole size black spruce stand.
101	4139 - Aspen, Mixed Deciduous	High Density Sapling	10.9	12		This stand was clearcut in 2002 and currently has a very dense regeneration with large white pine legacy trees.
102	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	2.3	Uneven Age		This stand is mature and ready for harvest but small acreage, surrounded by bog on three sides and train tracks on north side. Snow limited to determine if a feasible train crossing exists near the stand. Stand is part of another 7 acres in adjacent compartment.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
7	3105 - Mixed Upland Herbaceous	19.6	No	High	North West corner of stand is a half acre planting of red oak. trees are seeding in from perimeter. Tall, bushy white pine scattered throughout. Clones of quaking aspen.
9	6224 - Treed Bog	152.0	No	Unspecified	This is a treed bog.
19	3105 - Mixed Upland Herbaceous	5.1	No	Unspecified	
24	123 - Other High Intensity Urban	6.0	No	Unspecified	Railroad right of way with active tracks
27	6224 - Treed Bog	6.6	No	Unspecified	This is a treed bog.
34	6224 - Treed Bog	33.5	No	Unspecified	This is a treed bog.
36	50 - Water	13.0	No	Unspecified	Reagan Lake
39	3105 - Mixed Upland Herbaceous	1.7	No	Unspecified	
40	3102 - Grass	17.4	No	Unspecified	power line right of way
42	122 - Road/Parking Lot	6.6	No	Unspecified	H40 blacktop road
44	710 - Sand, Soil	7.8	No	Unspecified	Rexton gravel pit
53	122 - Road/Parking Lot	10.3	No	Unspecified	H40 blacktop highway
58	3105 - Mixed Upland Herbaceous	0.7	No	Unspecified	
59	3102 - Grass	0.9	No	Unspecified	
61	3102 - Grass	1.2	No	Unspecified	Grass opening with seedlings/sapling filling in. White pine bushy and up to 20' tall, rest are up to 15' tall.
63	3102 - Grass	4.1	No	Unspecified	Power line right of way. Company keeps brushed.
66	3105 - Mixed Upland Herbaceous	14.0	No	Unspecified	Appears to be old field slowly growing back into trees. Aspen in clone clumps, others are scattered throughout. Conifers bushy with branches to the ground 40-50' tall with smaller seedlings/saplings scattered throughout.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
71	50 - Water	3.2	No	Unspecified	unnamed bog lake
72	122 - Road/Parking Lot	2.8	No	Unspecified	Railroad right of way with tracks.
75	6224 - Treed Bog	112.3	No	Unspecified	This is a treed bog.
77	3102 - Grass	2.3	No	Unspecified	Old field with possible homestead site having apple trees present.
80	6220 - Alder/willow	16.2	No	Unspecified	
81	6224 - Treed Bog	36.0	No	Unspecified	This is a treed bog.
84	122 - Road/Parking Lot	1.7	No	Unspecified	H40 blacktop road
86	6239 - Mixed Emergent Wetland	7.9	No	Unspecified	
91	50 - Water	3.0	No	Unspecified	old beaver dam backed up area
92	6224 - Treed Bog	12.1	No	Unspecified	This is a treed bog.
93	50 - Water	2.5	No	Unspecified	Created by an old beaver dam flooding.
94	6224 - Treed Bog	144.3	No	Unspecified	This is a treed bog.
100	122 - Road/Parking Lot	0.8	No	Unspecified	Railroad right of way with tracks