



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 137

Entry Year 2015

Acreage: 1,935

County Mackinac

Management Area: Strickler Aspen

Revision Date: 07/08/2013

Stand Examiner: Matthew Edison

Legal Description:

T43N-R7W, Sections 16 - 18

Identified Planning Goals:

The compartment is located 2 miles south of Rexton and 4 ½ miles northwest of Epoufette. The compartment has a wide variety of timber types with red pine, maple, aspen and swamp conifer making up the majority. The red pine was original planted in 1931 to 1937. Some of the original plantations have been clearcut and replanted back to red pine from 1986 to 2002. Some acres have been converted to aspen when the plantation failed. Some red pine stands are proposed for final harvested and replanted to red pine this year of entry. There are other red pine stands proposed for thinning to maintain age class diversity. There is also Aspen proposed for final harvest/regeneration and a Northern Hardwood stand proposed for thinning and removal of salvageable beech. Davenport Creek and some of the tributaries which are trout streams flow through this compartment. The banks down to the streams are very steep and tree cover needs to be maintained to protect the bank from erosion. Buffers will be maintained along the stream banks to protect them from erosion caused by equipment.

Soil and topography:

The majority of the compartment is on the outwash plain and lake plains on the level to undulating ground. The banks along the streams are steep from the past water movement. The soils within the majority of the upland types are Wallace sand, with Kalkaska sand, Springlake loamy coarse sand, Paquin sand and Adams sandy loam making up the remainder of the upland. The transition zone soils are Spot-Finch Complex, Paquin-Finch sands, and Markey-Spot-Finch Complex. The lowland area soils are Leafriver mucky peat and Histosols and Aquents.

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

One private parcel of 2.7 acres is located in Section 18 along the Hog Island Road. State land adjoins the compartment on the west, south, north and south half of the east side. Section 16 has one quarter of a mile of private land on the east. The "residential" burgs of DeRushaville to the north and Sand Lake Hamlet to the south are areas with small population developments.

Unique Natural Features:

There is a potential for rare threatened or endangered plant and animal species within the compartment. Stands to be managed will be checked for species of concern. Management will be modified if species are found within those stands per management guidelines for that species.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

The Davenport Creek and the tributaries will have a buffer zone maintained to prevent erosion. Conifer species will be encouraged along the streams to discourage beaver activity on the trout stream waters. The planned harvesting activities should not conflict with the snowmobile trail on the Hog Island Road.

Watershed and Fisheries Considerations:

This compartment contains the upper stream reaches of Davenport Creek. Recent fishery surveys documented a primarily cold-water fish community consisting of brook trout and sculpins. Juvenile steelhead have also been captured as adult fish use Davenport Creek as a spawning and nursery stream. Implementation of BMP's that will aid in preventing sediment input from road crossings and upland areas are critically important to protect spawning areas for trout and other stream-resident fishes. Buffering the river is also critical to ensure future inputs of woody material to the stream channel, discourage aspen regeneration close to the stream channel, and provide shading to protect water temperature from warming to a degree that will inhibit trout survival.

Wildlife Habitat Considerations:

This compartment lies within the Strickler Aspen 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 and conifer stands appear to be less prevalent. Red pine has been planted in the west portion of the compartment.

Wildlife habitat objectives in this compartment include promoting age-class and structural diversity between aspen stands, maintaining diversity in hardwoods, and maintaining the large amount of existing closed-canopy cedar stands. Much of the compartment provides wintering cover for white-tailed deer. This cover is also important for snowshoe hare and black bear. Cedar and other closed canopy conifer cover will be left to maintain this habitat. Harvests in upland deciduous stands will take place during the winter months to allow tops to be available as browse for deer. Diversity will be maintained in northern hardwoods by leaving a component of beech as well as any under-represented species and some large wolfy trees. This will benefit hawks, woodpeckers and other cavity-nesters. In pine thinnings, other species will be left where possible to encourage diversity in these stands. Other species benefitting from these practices includes, but is not limited to, American woodcock, black-capped chickadee, ruffed grouse, and numerous small birds and mammals.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Silurian Engadine Group subcrops below the glacial drift. The Engadine is quarried for stone/limestone eleven miles to the east. The nearest gravel pit is located two miles to the north, but there may be some potential on the upland areas. There is no economic oil and gas production in the UP.

Vehicle Access:

The access to within the compartment is good from east and west side. The Hog Island Road is a seasonal county maintained sand road provides the access to the west side. Hiawatha Trail is a paved county road on the east side. The Derusha Road is a dirt county road through the north portion of section 16. The Tilden Road is a DNR maintained dirt road in section 18. Multiple two tracks provide access to the remainder the high ground within the compartment.

Survey Needs:

Blue Lines will be needed around 2.7 acre PVT for timber sale prep.

Recreational Facilities and Opportunities:

Snowmobile trail 473 traverses the western boundary of this compartment. No other developed recreational facilities are located within the compartment.

Fire Protection:

The potential for wildfire is moderate to low with the drainages of Davenport Creek making good fire breaks. The compartment has evidence of 2 wildfires within the past 20 years. They burned small areas and were likely lightning strike caused fires. The pine stands increase the potential for fire spread. Prescribed fire has been used on the recently final harvested pine stands therefore reducing the fire potential in those stands. The access to most of the compartment is good with the series of two track trails off of the county roads. Troll Fire burned to the south of compartment.

Additional Compartment Information:

None

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: 137
 T43N R07W Sections 16-18
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2015
 Acres: 1,935 GIS Calculated
 Examiner: Matthew Edison
 Map Revised: 06/17/2014
 Map Phase: Post-Review

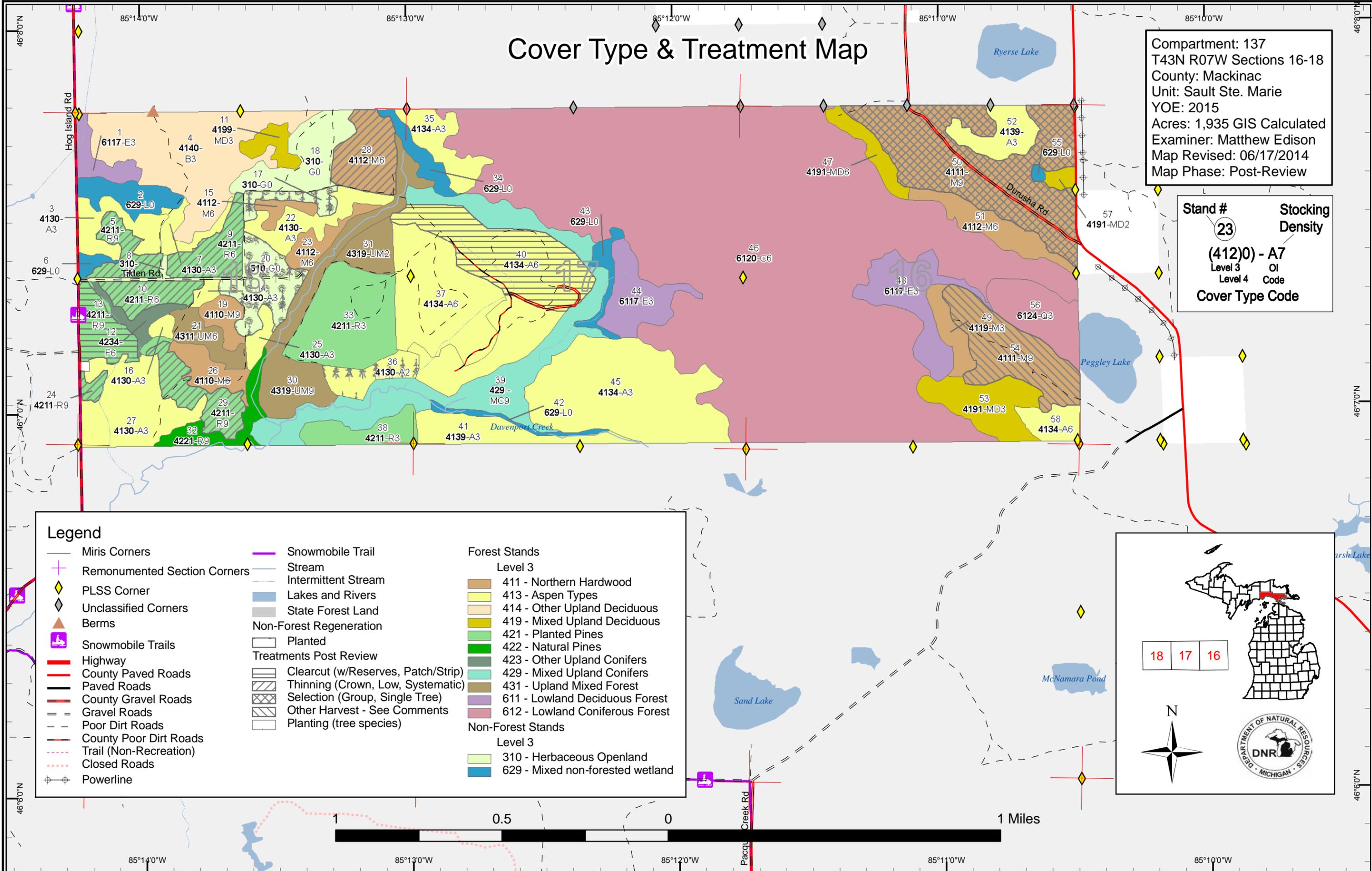
Stand # **23**
 Stocking Density
(412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

— Miris Corners	— Snowmobile Trail	Forest Stands
⊕ Remonumented Section Corners	— Stream	Level 3
◇ PLSS Corner	— Intermittent Stream	411 - Northern Hardwood
◇ Unclassified Corners	— Lakes and Rivers	413 - Aspen Types
△ Berms	— State Forest Land	414 - Other Upland Deciduous
— Snowmobile Trails	Non-Forest Regeneration	419 - Mixed Upland Deciduous
— Highway	□ Planted	421 - Planted Pines
— County Paved Roads	Treatments Post Review	422 - Natural Pines
— Paved Roads	▨ Clearcut (w/Reserves, Patch/Strip)	423 - Other Upland Conifers
— County Gravel Roads	▨ Thinning (Crown, Low, Systematic)	429 - Mixed Upland Conifers
— Gravel Roads	▨ Selection (Group, Single Tree)	431 - Upland Mixed Forest
— Poor Dirt Roads	▨ Other Harvest - See Comments	611 - Lowland Deciduous Forest
— County Poor Dirt Roads	▨ Planting (tree species)	612 - Lowland Coniferous Forest
— Trail (Non-Recreation)		Non-Forest Stands
— Closed Roads		Level 3
— Powerline		310 - Herbaceous Openland
		629 - Mixed non-forested wetland

18 17 16

N



Stand Boundary Map

Compartment: 137
 T43N R07W Sections 16-18
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2015
 Acres: 1,935 GIS Calculated
 Examiner: Matthew Edison
 Map Revised: 06/17/2014
 Map Phase: Post-Review

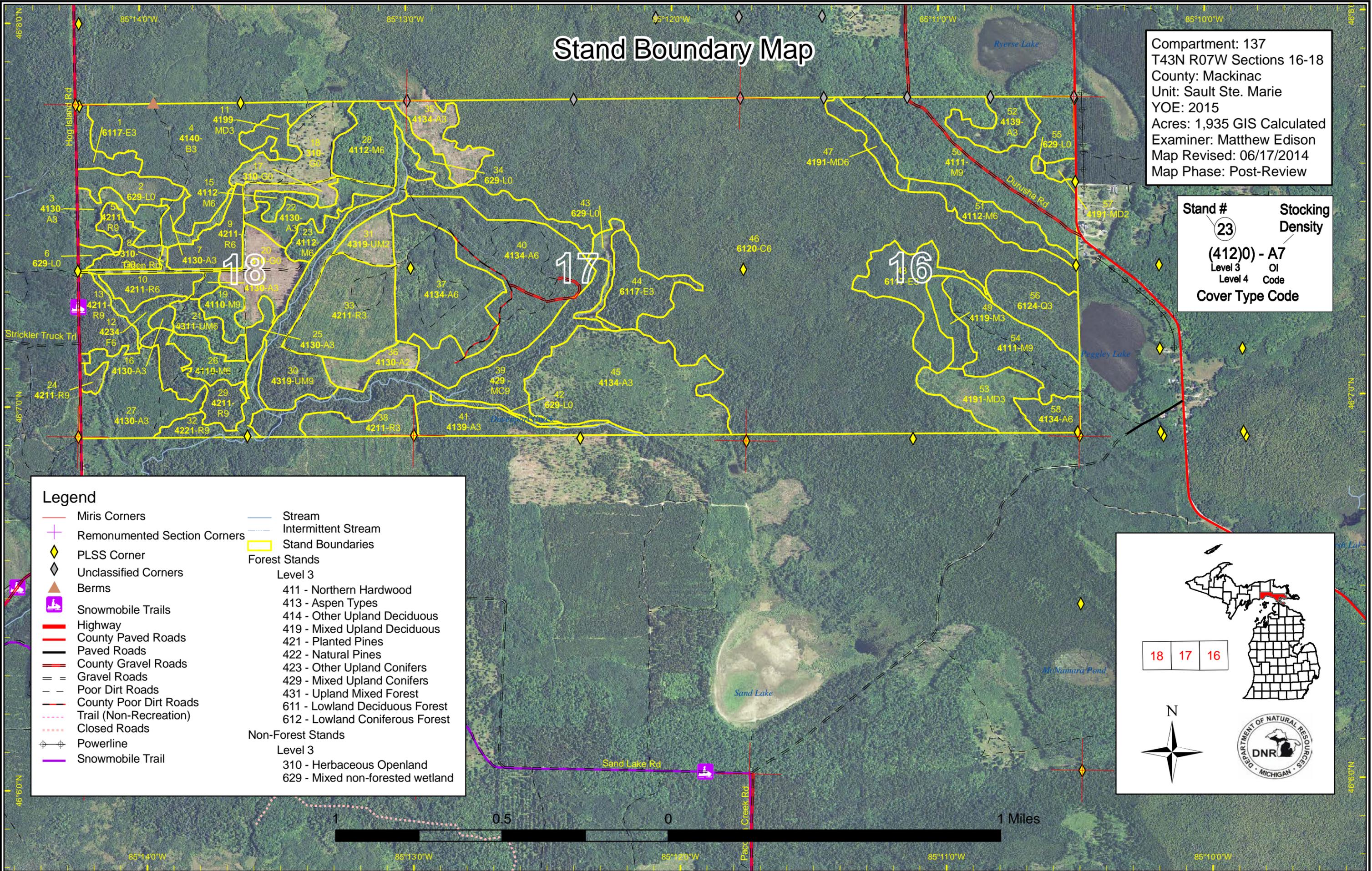
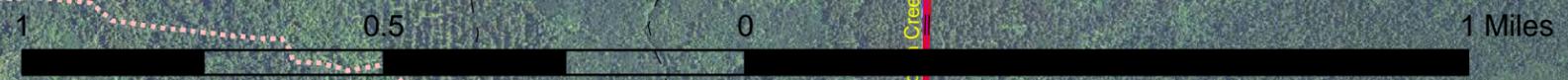
Stand # **23** Stocking Density
(412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

	Miris Corners		Stream
	Remonumented Section Corners		Intermittent Stream
	PLSS Corner		Stand Boundaries
	Unclassified Corners	Forest Stands	
	Berms	Level 3	
	Snowmobile Trails	411 - Northern Hardwood	
	Highway	413 - Aspen Types	
	County Paved Roads	414 - Other Upland Deciduous	
	Paved Roads	419 - Mixed Upland Deciduous	
	County Gravel Roads	421 - Planted Pines	
	Gravel Roads	422 - Natural Pines	
	Poor Dirt Roads	423 - Other Upland Conifers	
	County Poor Dirt Roads	429 - Mixed Upland Conifers	
	Trail (Non-Recreation)	431 - Upland Mixed Forest	
	Closed Roads	611 - Lowland Deciduous Forest	
	Powerline	612 - Lowland Coniferous Forest	
	Snowmobile Trail	Non-Forest Stands	
		Level 3	
		310 - Herbaceous Openland	
		629 - Mixed non-forested wetland	

18 17 16

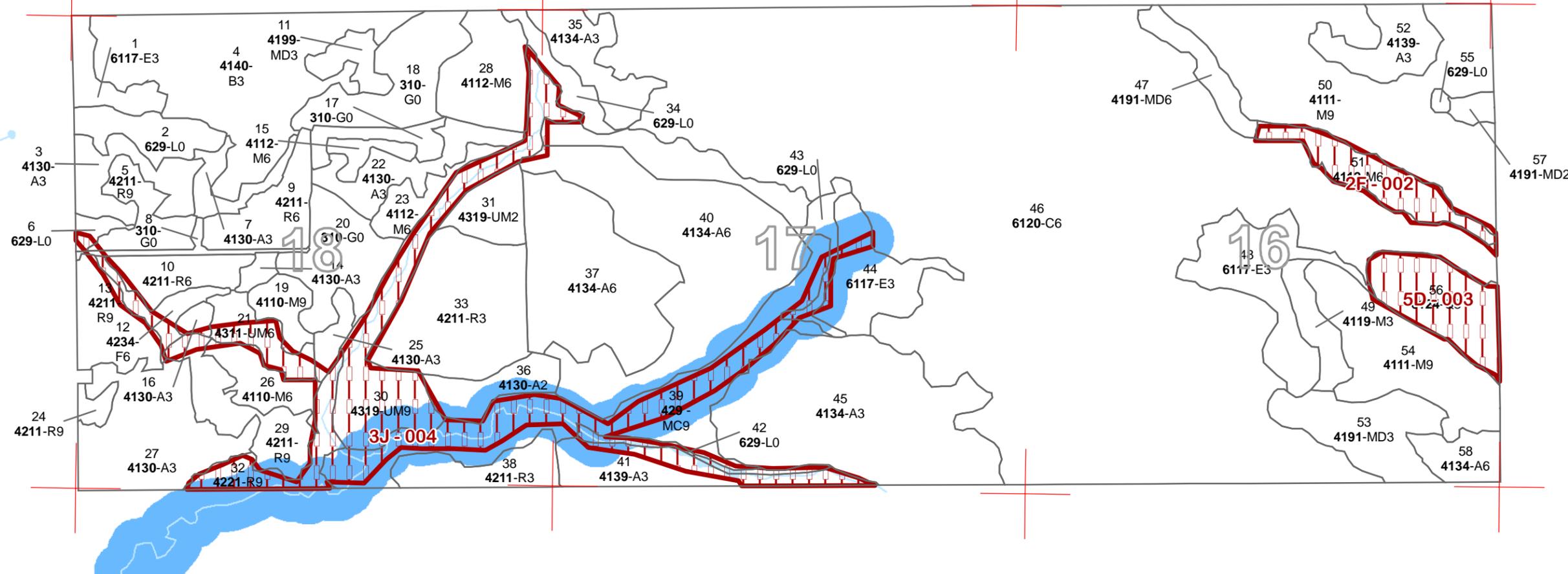
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Special Conservation Areas & Site Conditions Map

Compartment: 137
 T43N R07W Sections 16-18
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2015
 Acres: 1,935 GIS Calculated
 Examiner: Matthew Edison
 Map Revised: 06/17/2014
 Map Phase: Post-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
- Unavailable Factors
 - 2F: Too steep
 - 3J: Water quality / BMPs (stream, river, or lake)
 - 5D: Unproductive Forest Land
- Dedicated Special Conservation Areas
 - Cold Water Streams
 - Cold Water Lakes
 - Ecological Reference Areas
 - High Priority Trout Stream Buffer



85°14'0"W 85°13'0"W 85°12'0"W 85°11'0"W 85°10'0"W

46°8'0"N
46°7'0"N
46°6'0"N

46°8'0"N
46°7'0"N
46°6'0"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	68	140	55	161	0	0	0	0	0	0	0	0	0	0	424
Cedar	0	0	0	0	0	0	0	0	0	613	0	0	0	0	613
Herbaceous Openland	67	0	0	0	0	0	0	0	0	0	0	0	0	0	67
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	27	0	0	0	27
Lowland Deciduous	32	0	35	0	0	0	0	0	0	0	0	0	0	0	68
Lowland Shrub	40	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Mixed Upland Deciduous	28	0	12	11	0	0	0	0	0	0	0	0	0	0	51
Northern Hardwood	0	0	11	0	0	13	18	193	0	0	0	0	0	0	235
Paper Birch	0	0	79	0	0	0	0	0	0	0	0	0	0	0	79
Red Pine	0	66	14	19	0	0	0	3	53	14	0	0	0	0	169
Upland Conifers	0	0	0	0	0	0	0	85	0	0	0	0	0	0	85
Upland Mixed Forest	12	0	0	0	0	0	0	0	56	0	0	0	0	0	69
Upland Spruce/Fir	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Total	248	206	205	199	0	13	18	281	110	628	27	0	0	0	1935



Report 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit
Year of Entry 2015

Compartment 137
Total Compartment Acres: 1,935

Acres by Treatment Type

Commercial Harvest - 312 Tree Planting - 65 Other - 0
Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	57	0	0	0	0	0	57
Northern Hardwood	0	100	0	0	25	43	168
Planted Pines	18	0	0	0	69	0	87
Total	75	100	0	0	94	43	312



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5	45137005-Cut	13.6	42110 - Planted Red Pine	High Density Log	81	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Thin existing basal area down to approximately 120 basal area. Leave species other than red pine that are not within thinned row.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u>										
<u>Proposed Start Date:</u> 10/01/2014										
9	45137009-Cut	18.8	42110 - Planted Red Pine	High Density Pole	34	141-170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Third row thin this red pine plantation to release pine. Leave species other than red pine that are not within thinned row.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> N/A										
<u>Proposed Start Date:</u> 10/01/2014										
10	45137010-Cut	13.8	42110 - Planted Red Pine	High Density Pole	26	141-170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Third row thin this stand to release pine. Leave species other than red pine that are not within thinned row.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> N/A										
<u>Proposed Start Date:</u> 10/01/2014										
13	45137013-Cut	17.6	42110 - Planted Red Pine	High Density Log	86	171-200	Harvest	Clearcut	4211 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Clearcut stand and chip tops to facilitate planting. Focus retention as a buffer along stand 12 creek corridor to facilitate future helicopter treatments.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> Follow up harvest with trenching and planting. If the stand is not chipped prescribed burning will need to be considered to facilitate planting operations.										
<u>Proposed Start Date:</u> 10/01/2014										
24	45137024-Cut	3.3	42110 - Planted Red Pine	High Density Log	76	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Thin stand to approximately 120 basal area to release before final harvest next entry period.										
<u>Specs:</u>										
<u>Other Comments:</u>										
<u>Next Steps:</u> N/A										
<u>Proposed Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	45137028-Cut	24.7	4112 - Maple, Beech, Cherry Association	High Density Pole	72	111-140	Harvest	Crown Thinning	4111 - S.Maple, Hard Mast Association	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Thin the basal area in this stand down to regulation, approximately 80 basal area. Do not cut any Yellow birch, Hemlock, or White Pine. Winter										
<u>Specs:</u> cut.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> N/A										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
29	45137029-Cut	20.0	42110 - Planted Red Pine	High Density Log	81	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Thin basal area of stand down to approximately 120 basal area. Retain species other than red pine as part of residual for stand diversity.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
40	45137040-Cut	57.3	4134 - Aspen, Spruce/Fir	High Density Pole	38	141-170	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> Not good quality aspen. Clear cut the stand with attention to retention guidelines. Do not cut any of the scattered white pine. Winter cut and										
<u>Specs:</u> encourage slash piles for habitat considerations, particularly in areas closer to low conifer cover. No chipping.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Follow up harvest with a regeneration survey per work instructions. Acceptable regeneration will be any mix of aspen, conifer, cherry, maple, pine,										
<u>Steps:</u> or birch.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
50	45137050-Cut	100.2	4111 - S.Maple, Hard Mast Association	High Density Log	75	111-140	Harvest	Single Tree Selection	4111 - S.Maple, Hard Mast Association	Fld. Tr. Bdy. - Incomplete
<u>Prescription</u> The stand basal area suggests selection to lower basal area to regulation of 80 basal area and release crop trees. There is a good amount of										
<u>Specs:</u> beech remaining and it should be salvaged. Retain 2-3 Beech per acre where present. Leave Yellow Birch, Hemlock, White Pine, and some large wolfy trees as retention. Tops can be left in small piles wherever convenient for wildlife considerations.										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Survey for acceptable regeneration per work instructions. Acceptable regeneration will consist of any mix of maple, aspen, birch, cherry, beech,										
<u>Steps:</u> conifer, hemlock, or white pine.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
54	45137054-Cut	42.9	4111 - S.Maple, Hard Mast Association	High Density Log	76	81-110	Harvest	Other - Specify in Comments	4110 - Sugar Maple Association	Fld. Tr. Bdy. - Incomplete

Prescription Salvage harvest the remaining beech and thin any other necessary basal area to reach 80 basal area. Reatin 2-3 Beech per acre where present.
Specs: Leave Yellow Birch, Hemlock, White Pine, and some large wolfy trees as retention. Tops can be left in small piles wherever convenient for wildlife considerations.

Other
Comments:

Next
Steps: N/A

Proposed
Start Date: 10/01/2014

36	45137036- Plant	13.5	4130 - Aspen	Medium Density Sapling	6		Tree Planting	Machine Plant	4211 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
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Prescription Stand is to be planted to RP per FTP specs.
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/03/2013

17	NF_45137017 _Edt-Plant	8.0	3102 - Grass				Tree Planting	Machine Plant	4211 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
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Prescription Plant to RP per TMS specifications.
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2013

20	NF_45137020- Plant	26.1	3102 - Grass				Tree Planting	Machine Plant	4211 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete
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Prescription Plant to RP per TMS specifications.
Specs:

Other
Comments:

Next
Steps:

Proposed
Start Date: 10/01/2013



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	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33	45137033-Monitor	50.2	42110 - Planted Red Pine	High Density Sapling	16		Monitoring	See Comments	4211 - Planted Red Pine	Fld. Tr. Bdy. - Incomplete

Prescription Monitor and treat planted red pine for saw fly and potential release needs per work instruction approved methods and pesticides as necessary.
Specs:

Other Comments:

Next Steps:

Proposed Start Date: 10/01/2014

Total Treatment Acreage Proposed: 410.0



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

Total Treatment
Acreage Proposed: 0.0

Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Matthew Edison : Examiner

Compartment 137

Year of Entry 2015

Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions			
				No	5D	3J	2F
423	412	11	Aspen	412		11	
613	612	1	Cedar	612			1
27	1	26	Lowland Conifers	1	26		
68	66	2	Lowland Deciduous	66		2	
51	51		Mixed Upland Deciduous	51			
234	213	21	Northern Hardwood	213	0	1	19
79	79		Paper Birch	79			
169	151	17	Red Pine	151		17	
85	48	37	Upland Conifers	48		37	
69	20	49	Upland Mixed Forest	20		49	
8	4	4	Upland Spruce/Fir	4		4	
1,825	1,658	168	Total Forested Acres	1,658	26	121	20
	91%	9%	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
002	Not Available	2F: Too steep	21	No Limiting Factor			
Comments: Steep Slope in transition between cedar and hardwood stands.							
003	Not Available	5D: Unproductive Forest Land	26				
Comments: Stand was harvested last entry. Residual cedar is not to be harvested.							
004	Not Available	3J: Water quality / BMPs (stream, river, or lake)	128	2F: Too steep	3D: Recreational / Scenic values		
Comments: Stand is steep banks of Creek and should not be perated in.							



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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	10.7	23		Stand is very wet portion of large cut from 1991. Variable size and composition throughout.
3	4130 - Aspen	High Density Sapling	17.7	5		Stand was cut in 2009. Aspen and cherry regen with mix of White pine retention.
4	4140 - Other Upland Deciduous	High Density Sapling	79.3	23		Stand was cut in 1991. Ground can get wet in portion of stand... mixed aspen, balsam and conifer... check in 20 years..
5	42110 - Planted Red Pine	High Density Log	13.6	81	171-200	Stand of tall good looking red pine.
7	4130 - Aspen	High Density Sapling	8.4	23		Stand is variable size and density. remnant of cut in 1991. There are scattered white pine here and there. Real mix of big tooth, quaking, and balsam.
9	42110 - Planted Red Pine	High Density Pole	18.8	34	141-170	Stand of good looking red pine. Still small heights and diameters. Hold for third row thin next entry.
10	42110 - Planted Red Pine	High Density Pole	13.8	26	141-170	Stand of barely two stick red pine. Hold and check in ten years.
11	4199 - Other Mixed Upland Deciduous	High Density Sapling	8.2	27		Mix of small diameter aspen, balsam, maple and some scattered cherry. check in 10 or 20 years.
12	42340 - Upland Spruce/Fir	High Density Pole	7.8	36	81-110	Stand is buffer along creek corridor. Variable mix of spruce/fir, maple, aspen, and scattered small pine.
13	42110 - Planted Red Pine	High Density Log	18.3	86	171-200	Stand of large mature red pine. Very open understory.
14	4130 - Aspen	High Density Sapling	3.0	25		Stand of aspen regeneration mixed with some cherry and maple. Cut in 1999.
15	4112 - Maple, Beech, Cherry Association	High Density Pole	5.1	78	81-110	Stand was thinned in 2009. Mix of poor quality hardwood. Mix of red maple, sugar maple, some birch and beech.
16	4130 - Aspen	High Density Sapling	2.7	25		Stand of aspen regen with mix of some conifer. Stand was cut in 1999.
19	4110 - Sugar Maple Association	High Density Log	8.7	66	81-110	Stand was thinned last entry. Some decent sugar maple. Hold for ten years.
21	4311 - Pine, Aspen Mix	High Density Pole	12.2	80	1-50	Retained red pine with regenerating maple and aspen in understory, will become nice mixed stand.
22	4130 - Aspen	High Density Sapling	18.3	6		Stand was cut in 2008. Good looking stand of Aspen regeneration.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4112 - Maple, Beech, Cherry Association	High Density Pole	9.6	61	81-110	Was thinned last entry. Red and sugar maple mix.
24	42110 - Planted Red Pine	High Density Log	3.3	76	171-200	Very open stand of mature red pine.
25	4130 - Aspen	High Density Sapling	5.4	16		Cut in 1998. Good looking aspen regen with some maple mixed in.
26	4110 - Sugar Maple Association	High Density Pole	12.7	56	81-110	Stand was thinned last entry. Good amount of regen., maple and beech.
27	4130 - Aspen	High Density Sapling	42.9	16		Stand of aspen regen with mix of some cherry and maple. Cut in 1998.
28	4112 - Maple, Beech, Cherry Association	High Density Pole	24.7	72	111-140	Stand of decent quality sugar maple with a mix of red and some scattered conifer.
29	42110 - Planted Red Pine	High Density Log	21.3	81	171-200	Nice stand of red pine. There is enough ba to thin this entry and save final harvest for future/age class diversity.
30	4319 - Mixed Upland Forest	High Density Log	44.3	84	141-170	Stand is retention left as buffer along creek. Retain.
31	4319 - Mixed Upland Forest	Medium Density	12.5	5		Cut in 2008.
32	42210 - Natural Red Pine	High Density Log	14.1	90	141-170	Stand is buffer on steep slope of creek corridor. Mix of Red pine, White pine, and spruce/fir.
33	42110 - Planted Red Pine	High Density Sapling	50.2	16		Planted in 2000.
35	4134 - Aspen, Spruce/Fir	High Density Sapling	18.3	3		Cut in 2011.
36	4130 - Aspen	Medium Density	13.5	6		Stand was cut in 2000....was not replanted.... is Aspen regeneration now...
37	4134 - Aspen, Spruce/Fir	High Density Pole	60.9	38		Stand of variable size, quality and cover type. Clearcut in 1976. Not the best stand. Still not merchantable size, some areas are sparse...
38	42110 - Planted Red Pine	High Density Sapling	16.2	17		R3 cut in 1997. Has been released sprayed numerous times and advanced beyond competition.
39	429 - Mixed Upland Conifers	High Density Log	85.0	78	141-170	Stand is mix of large diameter spruce, with aspen and some large red pine. Red maple scattered throughout.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4134 - Aspen, Spruce/Fir	High Density Pole	89.8	38	141-170	Stand of variable sized aspen with mix of spruce and balsam. Some scattered white pine throughout.
4139 - Aspen, Mixed Deciduous	High Density Sapling	23.3	29		Aspen mixed with cherry, maple, and conifer.
6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	24.4	26		Virtually no access with Davenport Creek on three sides and large cedar sump on other. No real merchantability at this time. Small diameter.
4134 - Aspen, Spruce/Fir	High Density Sapling	91.4	16		Cut in 2008. Mixed regeneration of aspen, spruce, scattered red maple.
6120 - Lowland Cedar	High Density Pole	613.4	96	81-110	Stand of vert wet cedar with some fir and aspen on hummocks. Stand lies in lowland at very bottom of steep slope to east.
4191 - Mixed Upland Deciduous with Conifer	High Density Pole	10.8	36	81-110	Narrow stand along ridge. Transition between hardwood upland down to lowland cedar.
6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	32.5	7		Mackinac mix regeneration. Cut in 2007.
4119 - Mixed Northern Hardwoods	High Density Sapling	10.6	23		Stand is dense cover of 10-20' tall mix of paper birch, cherry, and red maple. Was cut in 1991.
4111 - S.Maple, Hard Mast Association	High Density Log	100.2	75	111-140	Nice looking sugar maple mix. Good amount of maple regeneration established, some advanced.
4112 - Maple, Beech, Cherry Association	High Density Pole	20.1	78	111-140	Very narrow stand of mixed hardwood that lies on very steep slope between hardwood and cedar swamp. Toi steep to harvest, acts as good buffer to cedar.
4139 - Aspen, Mixed Deciduous	High Density Sapling	17.3	21		Stand was listed as grass opening in previous inventory. Has filled in with total mix of aspen, cherry, spruce, maple. Poor quality.
4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	28.4	7		Stand was cc in 2007. Good amount of mixed regeneration. Stand has aspen, maples, birch, cherry, balsam and spruce all represented variably over the stand.
4111 - S.Maple, Hard Mast Association	High Density Log	42.9	76	81-110	Stand was thinned in 2007. Good looking sugar maple. Fair amount of beech remains. Red maple on ridge to west that is quite steep dropoff in places. Yellow birch scattered.
6124 - Lowland Spruce- Fir	High Density Sapling	27.1	101	1-50	Real poor productivity in fringe area around Peggley Lake. Mix of spruce, cedar, tag alder. Sparse and variable, very wet.
4191 - Mixed Upland Deciduous with Conifer	Medium Density	3.5	21		Stand was grass opening in previous inventory. It has filled in with mix of poor quality brush, mix of cherry, aspen, maple, and balsam in places. Will be Mackinac mix when mature...

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Sault Ste. Marie Mgt. Unit

Report 8 – Forested Stands

Compartment: 137
Year of Entry: 2015



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	4134 - Aspen, Spruce/Fir	High Density Pole	10.8	35	111-140	Cut in 1979. Good looking poles, check in ten years for added diameter.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	629 - Mixed non-forested wetland	14.7	Unspecified	Unspecified	
6	629 - Mixed non-forested wetland	3.2	Unspecified	Unspecified	
8	310 - Herbaceous Openland	4.1	Unspecified	Unspecified	
17	3102 - Grass	8.0	Plantation	Red Pine	
18	310 - Herbaceous Openland	28.7	Unspecified	Unspecified	
20	3102 - Grass	26.1	Plantation	Red Pine	
34	629 - Mixed non-forested wetland	9.1	No	Unspecified	Stand swapped from Forested to Non-Forested.
42	629 - Mixed non-forested wetland	4.4	Unspecified	Unspecified	
43	629 - Mixed non-forested wetland	7.4	Unspecified	Unspecified	
55	629 - Mixed non-forested wetland	1.1	Unspecified	Unspecified	New stand added.