



# Compartment Review Presentation

## Sault Ste. Marie Forest Management Unit

Compartment 193

Entry Year 2016

Acreage: 1,930

County Mackinac

Management Area: Battydoe Deer Yard

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**Revision Date:** 06/13/2014

**Stand Examiner:** Cory Luoto

### Legal Description:

T42N, R12W, SEC. 29-32, T41N R12W, SEC. 5, 6

### Identified Planning Goals:

The compartment is a part of the Batty Doe Lake Deeryard making thermal cover and food source a high priority. A selection harvest in a high quality maple type will promote growth of quality saw and veneer logs, forest health, and sustainability. A majority of the compartment was treated last entry and the sales were finished in 2013. A small beech salvage cut was done in January 2014.

### Soil and topography:

Most of the northern hardwoods are on level terrain, end moraines and drumlins, and have a component of Greylock fine sandy loam and Graveraet fine sandy loam. Some of the upland maple types are on rolling outwash plains, ground moraines and beach ridges on which, Springlake loamy coarse sand is present. The majority of the lowland conifer types and the cedar types are present on ground moraine depressions and lake plains. On these sites the Markey and Carbondale muck is the soil type.

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

The compartment is next to State land to the North, South, and East. Milikokia Hunt Club has property to the NE in section 29 and Carmuese Limestone Co. has ownership on the west side of the compartment.

### Unique Natural Features:

Loon Lake, Seiner's Marsh, and the southern part of Cranberry Lake are some of the aquatic features. There is also a 50-60ft ridge that is at the southern part of the compartment.

### Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

### Special Management Designations or Considerations:

None.

### Watershed and Fisheries Considerations:

Seiner's Creek, Loon and Cranberry Lakes. Fisheries values are marginal. Little is known about the fish community composition in the two lakes, while Seiner's Creek is not classified as trout water. Even so, there is some potential for seasonal runs of great lakes fish such as salmon, steelhead or coaster brook trout. Standard BMP guidelines should apply.

### Wildlife Habitat Considerations:

This compartment is at the southwestern edge of the Sault Ste. Marie Unit. It is in the Battydoe Deer Yard Management Area, and is dominated by northern hardwoods and lowland conifers. Loon Lake is in the northcentral portion, and a smaller unnamed lake or pond is located further southeast. Wildlife habitat objective include maintaining structural and age diversity within the lowland types. Hardwoods will be managed to encourage age class and structural diversity within stands while also providing closed canopy areas. Most harvests will be conducted during the winter months to provide browse to wintering deer. Wildlife species with the potential to benefit from the prescriptions include white-tailed deer, black bear, snowshoe hare, red-shouldered hawks, and neo-tropical migrant birds.

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

Surface sediments consist of coarse-textured glacial till and lacustrine (lake) sand and gravel. The glacial drift thickness varies between unknown up to 50 feet. The Silurian Engadine and Manistique Groups subcrop below the glacial drift. The Engadine is quarried for stone/limestone two miles to the west. There is a gravel pit in Section 30 and potential appears to be on the uplands. There is no current economic oil and gas production in the UP.

### Vehicle Access:

The main access to the compartment is on Batty Doe Lake Road, a gravel DNR road. This road starts in Schoolcraft

County and heads east into Carmuese Limestone Co. lands, then through state land out to Leveille Road, south of Gould City. The road is in fairly good shape but needs regular maintenance. There are nice gravel roads on the west side of the compartment but Carmuese doesn't allow access on these roads. Through out the compartment there is a good network of poor dirt roads. Some are getting over grown but can be opened up with out too much trouble. Most roads are inaccessible during the wet season.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

The area is mostly used by hunters in the fall. The roads provide opportunities for ATV's and snow sleds although they are not designated trails. The area is also well suited for hikers and birders.

**Fire Protection:**

This is a low fire danger area due to the large amount of lowlands. If fire does occur the thick duff layer would be the biggest concern.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

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

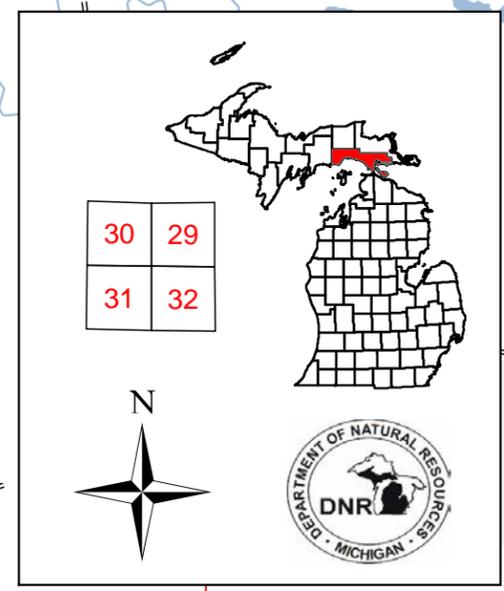
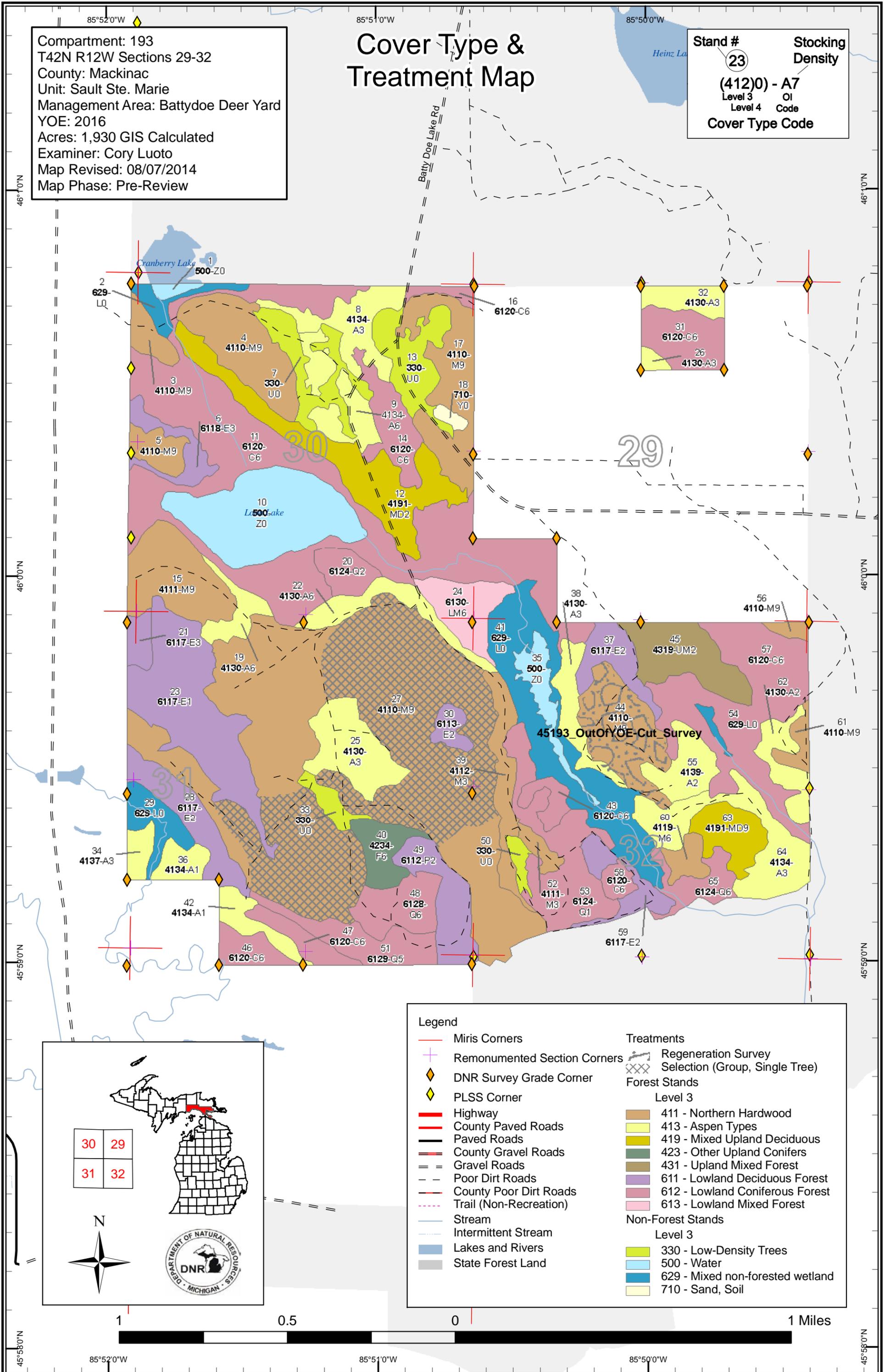
**The following information is displayed, where pertinent, on the attached compartment maps:**

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

Compartment: 193  
 T42N R12W Sections 29-32  
 County: Mackinac  
 Unit: Sault Ste. Marie  
 Management Area: Battydoe Deer Yard  
 YOE: 2016  
 Acres: 1,930 GIS Calculated  
 Examiner: Cory Luoto  
 Map Revised: 08/07/2014  
 Map Phase: Pre-Review

# Cover Type & Treatment Map

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



**Legend**

- Miris Corners
- Remonumented Section Corners
- DNR Survey Grade Corner
- PLSS Corner
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

**Treatments**

- Regeneration Survey Selection (Group, Single Tree)

**Forest Stands**

**Level 3**

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

**Non-Forest Stands**

**Level 3**

- 330 - Low-Density Trees
- 500 - Water
- 629 - Mixed non-forested wetland
- 710 - Sand, Soil

1 0.5 0 1 Miles

85°52'0"W 85°51'0"W 85°50'0"W

45°58'0"N

45°59'0"N

45°59'0"N

45°59'0"N

46°0'0"N

46°0'0"N

46°1'0"N

46°1'0"N

85°52'0"W

85°51'0"W

85°50'0"W

2 629-LQ

3 4110-M9

4 4110-M9

5 4110-M9

6 6118-E3

7 330-U0

8 4134-A3

9 4134-A6

10 500-Lake Z0

11 6120-C6

12 4191-MD2

13 330-U0

14 6120-C6

15 4111-M9

16 6120-C6

17 4110-M9

18 710-Y0

19 4130-A6

20 6124-Q2

21 6117-E3

22 4130-A6

23 6117-E1

24 6130-LM6

25 4130-A3

26 4130-A3

27 4110-M9

28 6117-E2

29 629-L0

30 6113-E2

31 4137-A3

32 4134-A1

33 330-U0

34 4134-A1

35 500-Z0

36 4134-A1

37 6117-E2

38 4130-A3

39 4112-M3

40 4234-F6

41 629-L0

42 4134-A1

43 4130-A6

44 4110-M9

45 4319-UM2

46 6120-C6

47 6120-C6

48 6128-Q6

49 6112-P2

50 330-U0

51 6129-Q5

52 4111-M3

53 6124-Q1

54 629-L0

55 4139-A2

56 4110-M9

57 6120-C6

58 6120-C6

59 6117-E2

60 4119-M6

61 4110-M9

62 4130-A2

63 4191-MD9

64 4134-A3

65 6124-Q6

66 4130-A3

67 4130-A3

68 4130-A3

69 4130-A3

70 4130-A3

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98 4130-A3

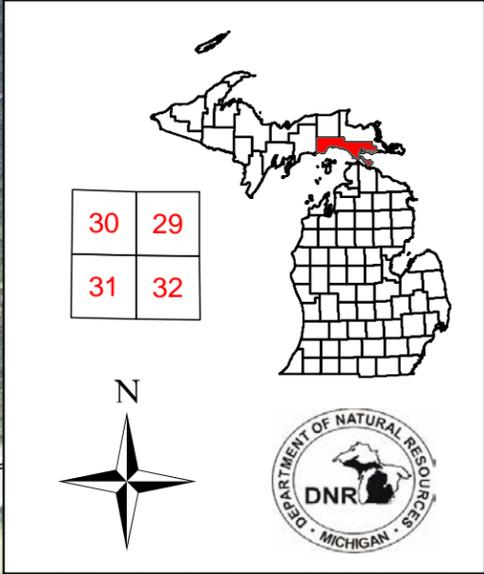
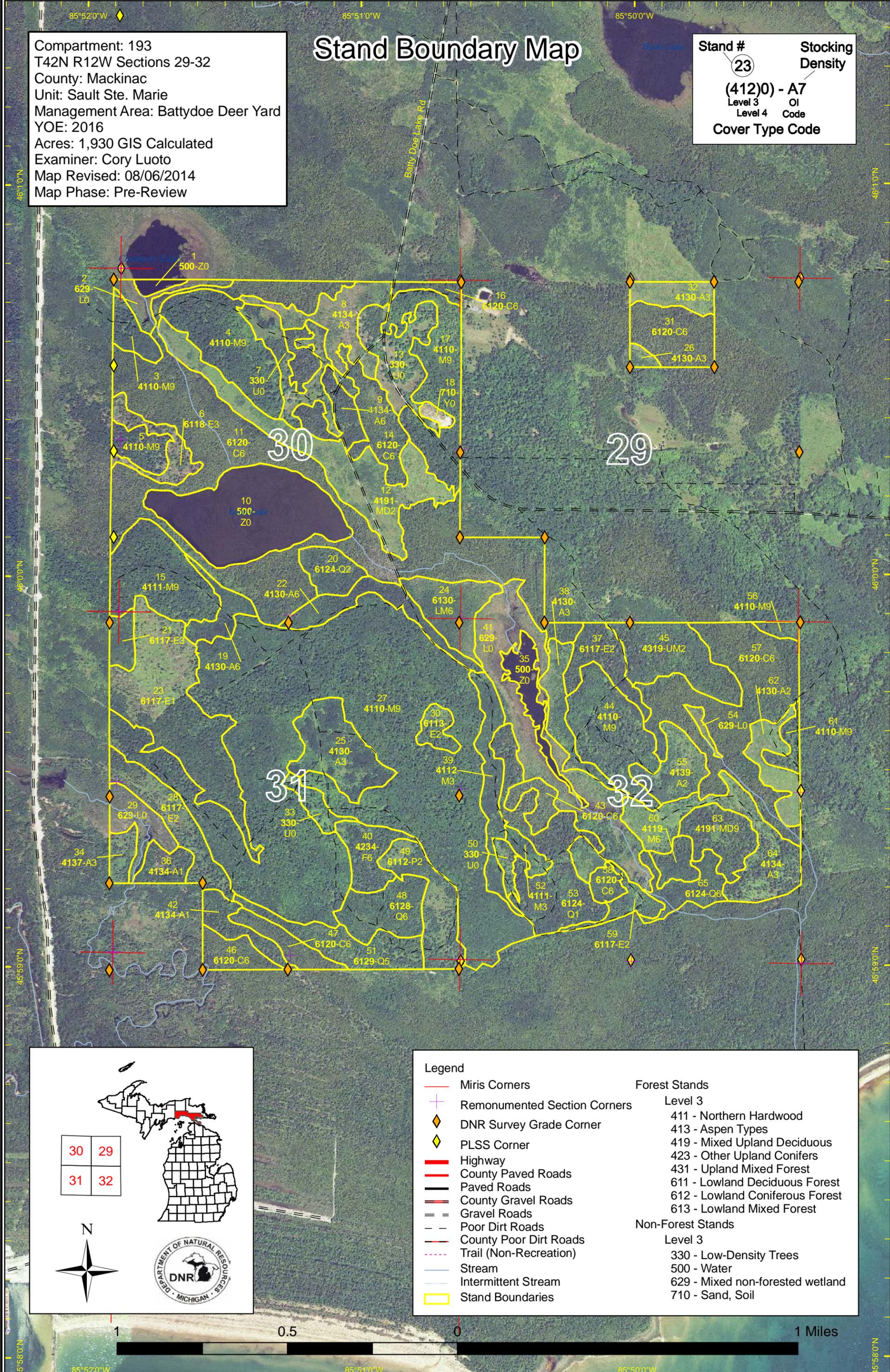
99 4130-A3

100 4130-A3

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 Map Revised: 08/06/2014  
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# Stand Boundary Map

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



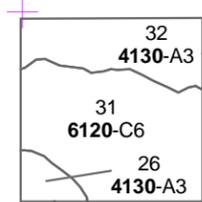
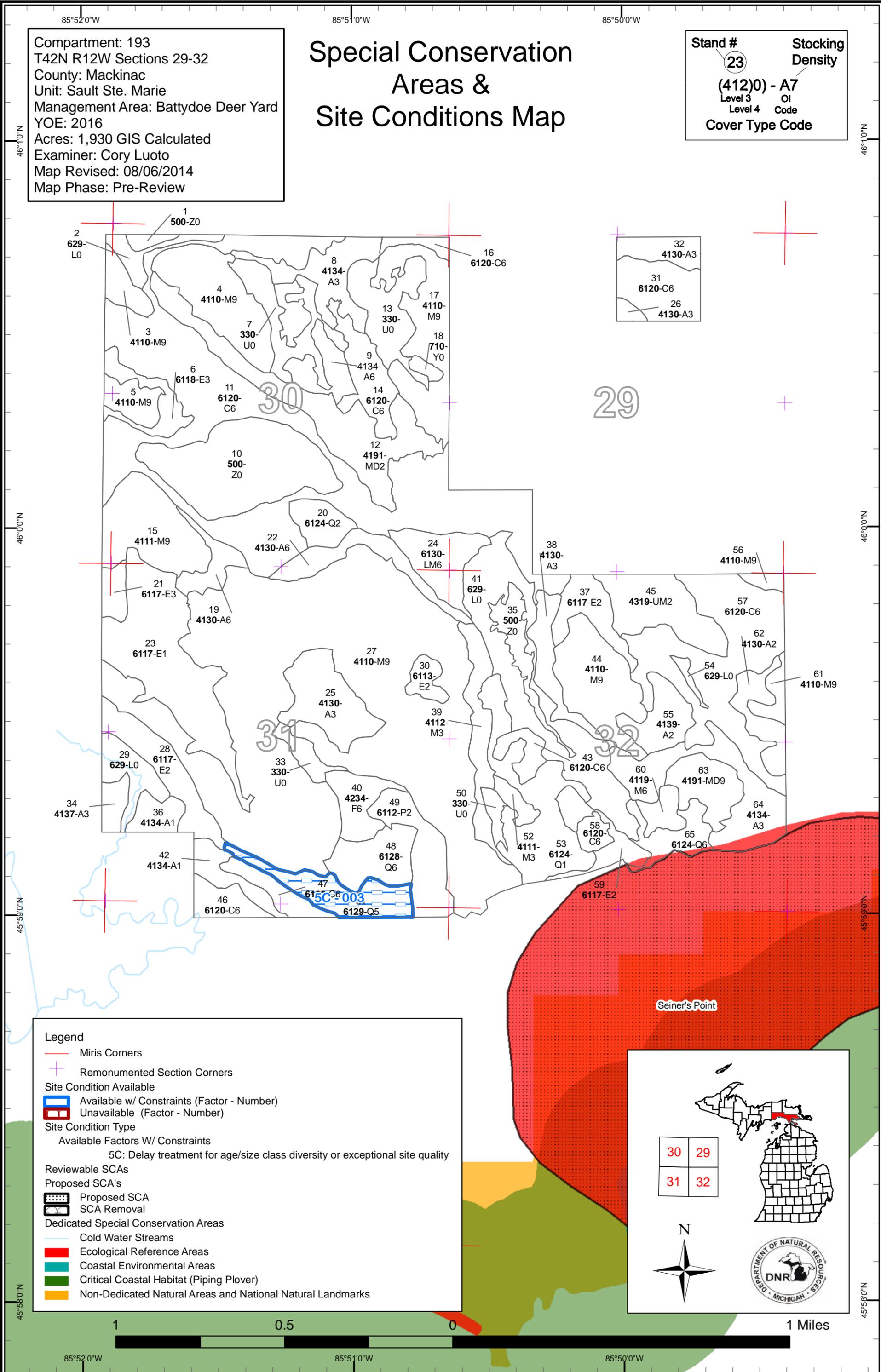
Legend	
	Miris Corners
	Remonumented Section Corners
	DNR Survey Grade Corner
	PLSS Corner
	Highway
	County Paved Roads
	Paved Roads
	County Gravel Roads
	Gravel Roads
	Poor Dirt Roads
	County Poor Dirt Roads
	Trail (Non-Recreation)
	Stream
	Intermittent Stream
	Stand Boundaries
<b>Forest Stands</b>	
<b>Level 3</b>	
	411 - Northern Hardwood
	413 - Aspen Types
	419 - Mixed Upland Deciduous
	423 - Other Upland Conifers
	431 - Upland Mixed Forest
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<b>Level 3</b>	
	330 - Low-Density Trees
	500 - Water
	629 - Mixed non-forested wetland
	710 - Sand, Soil



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# Special Conservation Areas & Site Conditions Map

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



**Legend**

- Miris Corners
- Remonumented Section Corners
- Site Condition Available
  - Available w/ Constraints (Factor - Number)
  - Unavailable (Factor - Number)
- Site Condition Type
  - Available Factors W/ Constraints
    - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Reviewable SCAs
- Proposed SCA's
  - Proposed SCA
  - SCA Removal
- Dedicated Special Conservation Areas
  - Cold Water Streams
  - Ecological Reference Areas
  - Coastal Environmental Areas
  - Critical Coastal Habitat (Piping Plover)
  - Non-Dedicated Natural Areas and National Natural Landmarks

Seiner's Point

30	29
31	32

N



85°52'0"W 85°51'0"W 85°50'0"W

46°10'N

46°10'N

46°00'N

46°00'N

45°58'0"N

45°58'0"N

45°58'0"N

45°58'0"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	128	31	34	31	22	0	0	0	0	0	0	0	0	0	246
Cedar	0	0	0	0	0	0	0	0	0	22	35	291	23	0	371
Low-Density Trees	64	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Lowland Aspen/Balsam Poplar	0	0	26	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Conifers	49	0	0	28	0	23	0	0	0	25	0	0	0	0	126
Lowland Deciduous	105	33	7	14	0	0	0	0	0	0	0	0	0	0	160
Lowland Mixed Forest	0	0	0	23	0	0	0	0	0	0	0	0	0	0	23
Lowland Shrub	94	0	0	0	0	0	0	0	0	0	0	0	0	0	94
Mixed Upland Deciduous	58	0	0	0	0	0	0	20	0	0	0	0	0	0	79
Northern Hardwood	0	0	22	14	0	0	0	127	429	10	0	0	0	0	602
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	33	0	0	0	0	0	0	0	0	0	0	0	33
Upland Spruce/Fir	0	0	0	16	0	0	0	0	0	0	0	0	0	0	16
Water	88	0	0	0	0	0	0	0	0	0	0	0	0	0	88
<b>Total</b>	<b>588</b>	<b>65</b>	<b>123</b>	<b>126</b>	<b>22</b>	<b>23</b>	<b>0</b>	<b>148</b>	<b>429</b>	<b>57</b>	<b>35</b>	<b>291</b>	<b>23</b>	<b>0</b>	<b>1930</b>



# Report 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit  
Year of Entry 2016

Compartment 193  
Total Compartment Acres: 1,930

### Acres by Treatment Type

Commercial Harvest - 224	Tree Planting - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	

### Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Northern Hardwood	0	224	0	0	0	0	224
<b>Total</b>	<b>0</b>	<b>224</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>224</b>



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
27 45193027-Cut-east	154.2	4110 - Sugar Maple Association	High Density Log	85	81-110	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 Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, balsam fir, spruce, aspen and hemlock. It is also possible that these stands might be good spots to try some under planting of a variety of species including red oak, resistant beech and white pine.

Proposed  
Start Date: 10/01/2015

27 45193027-Cut-west	69.8	4110 - Sugar Maple Association	High Density Log	85	81-110	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 Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, cherry, beech, paper and yellow birch, balsam fir, spruce, aspen and hemlock. It is also possible that these stands might be good spots to try some under planting of a variety of species including red oak, resistant beech and white pine.

Proposed  
Start Date: 10/01/2015

45193_OutOfY OE- Cut_Survey	37.0					Regeneration Survey	Next Inventory Cycle (natural regen)	4110 - Sugar Maple Association	Fld. Tr. Bdy. - Incomplete
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Prescription  
Specs:

Other  
Comments:

Next The treatments should be followed up with a regeneration check looking at the amount of beech brush present in these stands. Herbicide may be used to control the beech brush. It is also possible that these stands might be good spots to try some under planting of a variety of species including red oak, resistant beech and white pine.

Proposed  
Start Date: 10/01/2017

**Total Treatment  
Acreage Proposed: 260.9**



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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

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**Total Treatment**  
**Acreage Proposed: 0.0**

## Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Cory Luoto : Examiner

Compartment 193

Year of Entry 2016

### Availability for Management

Availability for Management			Dominant Site Conditions		
Total Acres	Acres Available	Acres Not Available		No	5C
246	246		Aspen	246	
371	371		Cedar	371	
26	26		Lowland Aspen/Balsam Poplar	26	
126	126		Lowland Conifers	100	25
160	160		Lowland Deciduous	160	
23	23		Lowland Mixed Forest	23	
79	79		Mixed Upland Deciduous	79	
602	602		Northern Hardwood	602	
33	33		Upland Mixed Forest	33	
16	16		Upland Spruce/Fir	16	
1,682	1,682		Total Forested Acres	1,656	25
	100%		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
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26				
<b>Comments:</b>							



### 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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	4110 - Sugar Maple Association	High Density Log	9.6	83	51-80	Stand was thinned in 2011. Access in the future may be a problem. The quarry is reluctant to allow logging operations at this time. It was hard to determine regeneration because of the snow depth. The beech in the stand is heavily infected with beech bark disease. There is not enough volume to try and salvage.
4	4110 - Sugar Maple Association	High Density Log	41.9	79	81-110	Stand was thinned in 2007. Hard to tell how the regeneration is doing because of the deep snow depths. Stand looks good.
5	4110 - Sugar Maple Association	High Density Log	11.4	83	81-110	Stand was thinned in 2011. Access in the future may be a problem. The quarry is reluctant at this time to allow logging operation through their property. Nice crop trees in the stand. Hard to determine regeneration because of the deep snow depths.
6	6118 - Lowland Deciduous with Cedar	High Density Sapling	13.5	3	1-50	Stand was cut in 2011. It was a clearcut with reserves. All the cedar was left within the stand. Visible signs of birch and aspen regen present but hard to tell the rest because of the snow depths.
8	4134 - Aspen, Spruce/Fir	High Density Sapling	25.9	5		Stand was cut in 2009. Regen is doing great. Portions of the stand have lower ground but a majority of it is upland.
9	4134 - Aspen, Spruce/Fir	High Density Pole	21.9	42	81-110	Decent Mackinac mix stand. Look at harvesting in 10-20 years.
11	6120 - Lowland Cedar	High Density Pole	199.4	116	171-200	Large, fairly dense cedar stand. Tons of deer use. Small patch of dead trees along Seiners Marsh Road. Stand surrounds Loon Lake.
12	4191 - Mixed Upland Deciduous with Conifer	Medium Density	58.4	7		Stand was harvested in 2007. It was part of two separate sales but cut at the same time. Eastern part has more conifer but it is a little more sparse than the western part. Stand canopy closure might be higher but the snow is too deep to tell.
14	6120 - Lowland Cedar	High Density Pole	21.8	91	111-140	Decent cedar stand, heavy deer browse.
15	4111 - S.Maple, Hard Mast Association	High Density Log	41.2	76	81-110	Stand was thinned in 2007. Snow is too deep to get a real good idea how much regen there is.
16	6120 - Lowland Cedar	High Density Pole	4.6	107	171-200	Decent cedar stand. Heavy deer browse. Data taken from adjacent compartment.
17	4110 - Sugar Maple Association	High Density Log	44.2	74	81-110	Stand was thinned in 2007. Beech regeneration is present but hard to tell about the maple because of the deep snow depths. Remaining beech is heavily infected with beech bark disease but not enough of it to justify a salvage sale.
19	4130 - Aspen	High Density Pole	11.4	32	1-50	Stand has just transitioned into a pole stand. Mostly aspen but several other species present.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6124 - Lowland Spruce-Fir	Medium Density	12.5	34		Poor quality swamp conifer. It was cut in 1980. Look sparse in some areas. Stand is just transitioning into a pole stand.
21	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	7.4	25		Wet Mackinac mix stand, a little heavier to the swamp hardwood type but still a fair amount of conifer.
22	4130 - Aspen	High Density Pole	19.2	32	51-80	Stand has just transitioned to a pole stand. Nice thick regeneration.
23	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Sapling	74.0	1		Stand was cut in March of 2013. Hard to tell about the regeneration because of the deep snow. A fair amount of aspen sprouts present. Hemlock and some cedar was left.
24	6130 - Fir, Aspen, Maple	High Density Pole	23.3	36	1-50	Lowland Mackinac Mix stand. Very wet to the north. Stand is just transitioning to a pole stand.
25	4130 - Aspen	High Density Sapling	31.5	15		Nice looking aspen regeneration. Some grassy inclusions within the stand. Not a lot of conifer within the stand.
26	4130 - Aspen	High Density Sapling	2.8	9		Stand was clear cut in 2005. Regeneration is doing great.
27	4110 - Sugar Maple Association	High Density Log	367.2	85	81-110	Large portions of this stand have been treated in the previous entry. The parts that went untreated should be harvest now. Hard to determine the extent of regeneration because of the deep snow levels.
28	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	26.0	10	1-50	This stand was shelterwood in 2004. This was part of a larger stand but this portion has a lot less conifer than the rest of the original stand. Remaining overstory looks pretty healthy. Look at harvesting overstory after the existing regeneration becomes bigger.
30	6113 - Lowland Maple	Medium Density	7.1	11		Stand was cut in 2003. Wet pocket in a large hardwood complex. Regeneration is kind of spotty.
31	6120 - Lowland Cedar	High Density Pole	25.0	107	141-170	Decent cedar stand. Signs of heavy deer use.
32	4130 - Aspen	High Density Sapling	12.0	4		Stand was clear cut in 2009. Regeneration is doing good.
34	4137 - Aspen, Birch	High Density Sapling	7.0	5		Stand was clearcut in 2009. Regeneration looks good. There may be a higher conifer component but hard to tell because of the deep snow depths.
36	4134 - Aspen, Spruce/Fir	Low Density Sapling	9.6	2		This stand was clearcut in 2012. Not a lot of regeneration visible because of the deep snow depths.
37	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	17.3	1	1-50	This stand was clearcut in the spring of 2013. A majority of the cedar was left. It was difficult to determine regeneration because of the deep snow depths.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	4130 - Aspen	High Density Sapling	15.8	21		Nice aspen regeneration.
39	4112 - Maple, Beech, Cherry Association	High Density Sapling	21.8	21		This stand was clearcut in 1993. It was a little sparse in the last inventory but has filled in for the most part now. The species vary quite abit throughout the stand. Some areas are heavier to cherry while other are primarily maple.
40	42340 - Upland Spruce/Fir	High Density Pole	16.4	30	1-50	This stand was a grassy opening thirty years ago. It has slowly filled in with spruce and balsam. The diameters in the southern part of the stand are considerably bigger than those in the north. The stand is also more sparse in the north where it transitions back into a grassy opening.
42	4134 - Aspen, Spruce/Fir	Low Density Sapling	12.0	2		This stand was clearcut in 2012. Not a lot of regeneration visible because of the deep snow depths.
43	6120 - Lowland Cedar	High Density Pole	8.2	114	111-140	This stand was a part of a large swamp conifer stand in the last inventory. This portion of the stand is primarily cedar and was not part of the sale. Signs of heavy deer use.
44	4110 - Sugar Maple Association	High Density Log	41.0	84	51-80	Stand was thinned by a beech salvage in the winter of 2013-2014.
45	4319 - Mixed Upland Forest	Medium Density	33.3	20		Stand was clearcut in 1994. Regeneration has been spotty. Open areas are full of rapberry. Thick areas of conifer while other areas are almost solid cherry. Some larger hemlock and cedar are present.
46	6120 - Lowland Cedar	High Density Pole	11.6	121	171-200	Nice, dense cedar stand. Heavy deer use.
47	6120 - Lowland Cedar	High Density Pole	11.6	121	171-200	Nice, dense cedar stand. Heavy deer use.
48	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	23.3	52	51-80	This is a wet Mackinac Mix stand. More conifer than deciduous. Look at clearcutting in 20 years.
49	6112 - Lowland Aspen	Medium Density	26.4	24		Wet Mackinac Mix stand. This stand was clearcut in 1990. Regeneration is quite variable. Some areas of aspen while other areas of chery and hardwood. Not a lot of conifer.
51	6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	25.5	90	1-50	This stand was shelterwood in 2004. Remaining overstory looks pretty healthy. Look at harvesting overstory after the existing regeneration becomes bigger.
52	4111 - S.Maple, Hard Mast Association	High Density Sapling	5.4	33	1-50	This stand was cleacut in the 1980's. Really nice sugar maple regen through. Some scattered areas of aspen.
53	6124 - Lowland Spruce- Fir	Low Density Sapling	49.0	1		This stand was clearcut in the spring of 2013. Regeneration was hard to determine because of the deep snow depths. Cedar trees were left throughout the harvest area.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	4139 - Aspen, Mixed Deciduous	Medium Density	18.2	21		Stand was clearcut in 1993. Some real nice areas of aspen regeneration but the rest of the stand is spotty. Openings within the stand are solid raspberry.
56	4110 - Sugar Maple Association	High Density Log	3.4	90	81-110	Stand was thinned in 1998 with a stand in the adjacent compartment. Look at cutting in ten years.
57	6120 - Lowland Cedar	High Density Pole	83.2	117	141-170	Decent cedar stand. A stream flows through the southern part of the stand. Heavy deer use within this stand.
58	6120 - Lowland Cedar	High Density Pole	5.6	103	81-110	Smaller diameter cedar. Not as nice as other cedar in the area.
59	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density	14.4	37	1-50	Stand is almost a pole stand but still more sapling size trees than poles. Poor quality site. Stocking in many areas is spotty.
60	4119 - Mixed Northern Hardwoods	High Density Pole	8.1	39	51-80	This stand was cleared by wildlife division in 1975. It has come back to primarily maple and aspen. This stand is higher ground than the stand to the south where the same treatment was done.
61	4110 - Sugar Maple Association	High Density Log	6.5	93	81-110	Stand was thinned in 1998 with the adjacent compartment. Look at thinning again in ten years. Heavy deer use.
62	4130 - Aspen	Medium Density	16.0	6		Stand was clearcut in 2008. Regeneration is doing pretty good but a few spotty areas.
63	4191 - Mixed Upland Deciduous with Conifer	High Density Log	20.3	77	141-170	Very nice, mature Mackinac Mix stand. Will be left for wildlife considerations in the area.
64	4134 - Aspen, Spruce/Fir	High Density Sapling	42.7	6		Stand was clearcut in 2008. Regeneration is doing great. More conifer in the southern and eastern parts of the stand.
65	6124 - Lowland Spruce-Fir	High Density Pole	15.5	39	1-50	This stand was cleared by wildlife division in 1975. It has come back to primarily balsam and aspen. This stand is lower ground than the stand to the north where the same treatment was done.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	50 - Water	3.0	Unspecified	Unspecified	
2	629 - Mixed non-forested wetland	8.5	Unspecified	Unspecified	
7	330 - Low-Density Trees	24.2	Unspecified	Unspecified	
10	50 - Water	71.0	Unspecified	Unspecified	
13	330 - Low-Density Trees	27.9	Unspecified	Unspecified	
18	710 - Sand, Soil	2.7	Unspecified	Unspecified	
29	629 - Mixed non-forested wetland	15.3	Unspecified	Unspecified	
33	330 - Low-Density Trees	7.2	Unspecified	Unspecified	
35	50 - Water	14.1	Unspecified	Unspecified	
41	629 - Mixed non-forested wetland	67.6	Unspecified	Unspecified	
50	330 - Low-Density Trees	4.4	Unspecified	Unspecified	
54	629 - Mixed non-forested wetland	2.2	Unspecified	Unspecified	