



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45046

Entry Year 2020

Acreage: 1,785

County Chippewa

Management Area: North Rudyard

Revision Date: 2018-07-23

Stand Examiner: Josh Brinks

Legal Description:

T45N R2W SECs. 5, 8,9,17 & T46N R2W Sec. 32

Identified Planning Goals:

Compartment 46 is a rather long compartment running north and south along the east side of Tilson Road just north of Rudyard. All but the south end is somewhat poorly drained. Branches of the Waiska River and its associated ravines cross the compartment from west to east making access for timber sale management quite challenging. Quality in the low wet areas is marginal at best. In the southern part of the compartment soils and drainage are much improved, oak and pine is the dominant cover type in this area. Management goals include developing an optimal age class distribution of aspen stands for sustainable forestry and wildlife values. Provide public access for multiple use benefits such as hunting, gathering, snowmobile riding and camping while protecting the natural resource. This compartment is within the North Rudyard Management Area.

Soil and topography:

Fibre-Allendale-Pickford Association: Very deep, nearly level, poorly drained and somewhat poorly drained, mucky, sandy, and loamy soils on lake plains, ground moraines, and outwash plains. Markey-Kinross-Croswell Association: Very deep, nearly level to undulating, very poorly drained, poorly drained, and moderately well drained, mucky and sandy soils on outwash plains. Pickford-Rudyard-Ontonagan Association: Very deep, nearly level to very steep, poorly drained somewhat poorly drained, and well drained, loamy soils on lake plains. Topography consists of gently rolling on the south and dropping off sharply to the north can best describe this compartment. The northern area is interspersed with branches of the Waiska River running west to east. These branches are located in steep, uncrossable ravines. Sites are generally good in these areas.

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

Private holdings are found on the north, east and south with state generally bordering the west. In holdings are limited and are held for dispersed recreational purposes. Permanent residents are adjacent to the south part of this compartment.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

No known occurrences.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The majority of this compartment is within the Eastern Lake Superior Management Unit, with only a small portion within the Northern Lake Huron Management Unit. The Mainstem and the South Branch of the Waiska River pass through this compartment. Stand 53 (aspen typed) is already identified as a factor limit. Proposed activity does appear to be near any surface water so, however drainages should be avoided at all times. Also, there are no Fisheries Concerns for the portion within NLHMU.

Wildlife Habitat Considerations:

This compartment is part of the North Rudyard MA where featured wildlife species include American woodcock, red-shouldered hawk, ruffed grouse, and white-tailed deer. The majority of the compartment contains lowland deciduous and coniferous (primarily cedar) cover. The southern portion of the compartment is on a sandy ridge that supports oak, red pine, and aspen. Most of the compartment is part of a deer wintering complex, and most harvests will take place during the winter so tops are available as browse. Some lowland aspen stands were harvested during the last entry, and now are

regenerating and providing young early successional deciduous habitat for grouse, woodcock, snowshoe hare, and other wildlife. Some mature stands not treated at that time are targeted for harvest to maintain the early successional habitat and avoid a type conversion. Cedar will be left to provide cover for wintering deer and other species. Oak will be promoted to favor acorn production, and diversity will be encouraged in hardwood stands to encourage use by a variety of species including hawks.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured till and lacustrine (lake) clay and silt. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. These rocks are quarried in the UP for stone/dolomite. A gravel pit is located in Section 16 and potential is good. There is no current economic oil and gas production in the UP.

Vehicle Access:

Good access exists along the west side of the compartment by way of the Tilson Road. Interior road access is limited to the southern upland area. No new permanent roads are planned for the compartment at this time.

Survey Needs:

Survey may be needed before treating the stands adjacent to private property.

Recreational Facilities and Opportunities:

No developed facilities other than a segment of snowmobile trail exist within the compartment. Hunting and trapping are also popular within this compartment.

Fire Protection:

Good access in the southern part of the compartment but very poor access within the northern portion. Water sources are sufficient with the nearby streams or at Garlinghouse Lake.

Additional Compartment Information:

The following reports from the Inventory are attached:

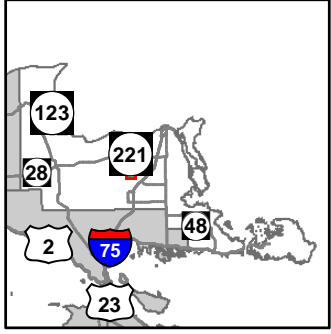
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

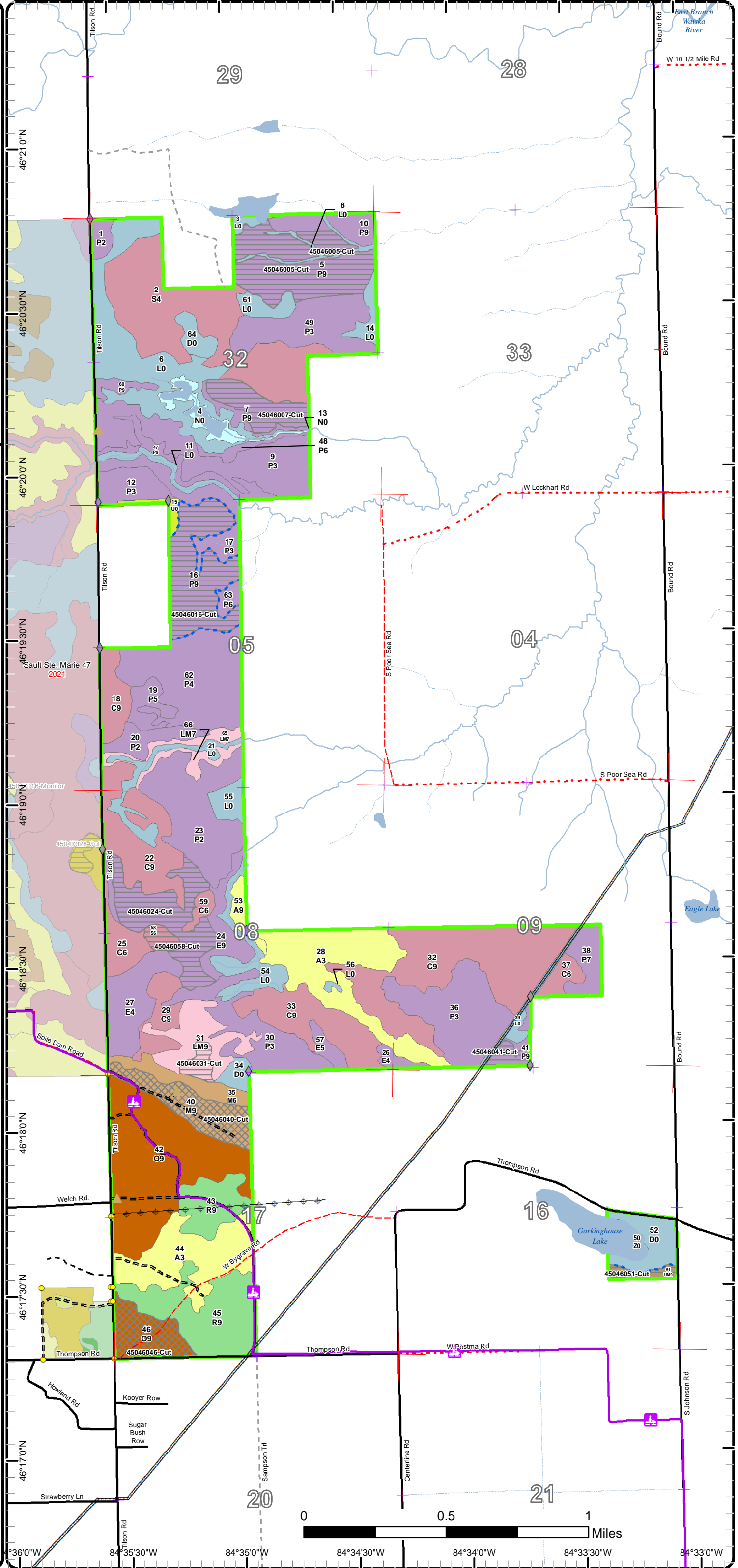
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 46
 T45N,R02W, Sec. 05, 08, 09, 16, 17
 T46N, R02W, Sec. 32
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: North Rudyard
 YOE: 2020
 Acres: 1,785 GIS Calculated
 Examiner: Josh Brinks
 Map Revised: 12/7/2018
 Map Phase: Post Review

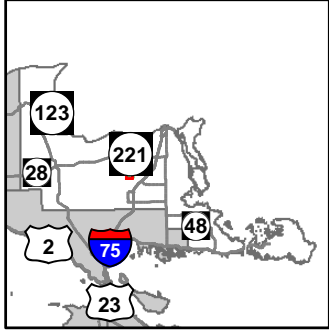


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
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- Lake/Pond
- Perennial River
- Lakes and Rivers All
- ▲ Berms
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

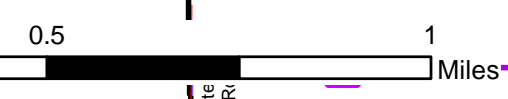
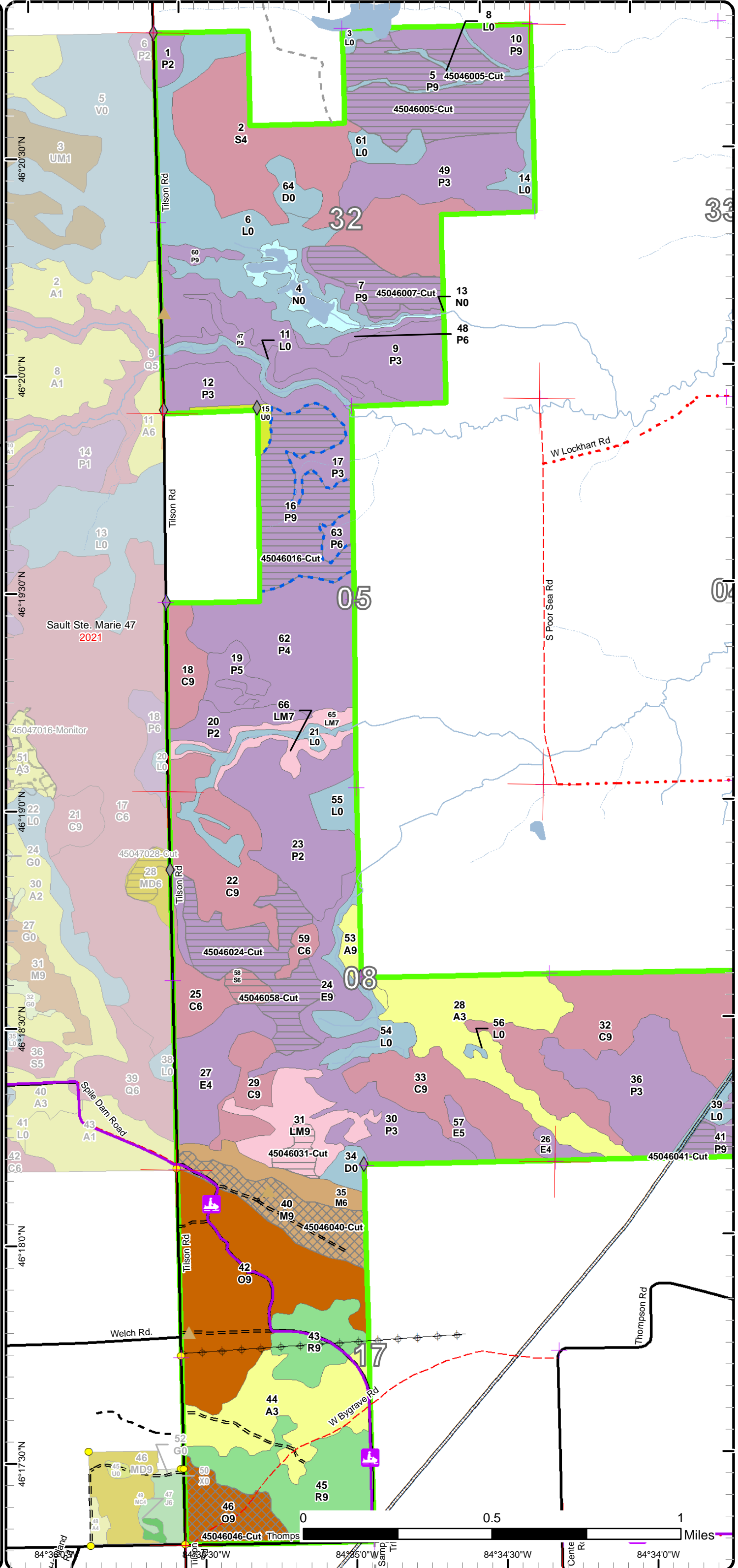


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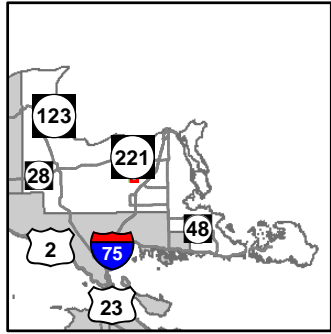
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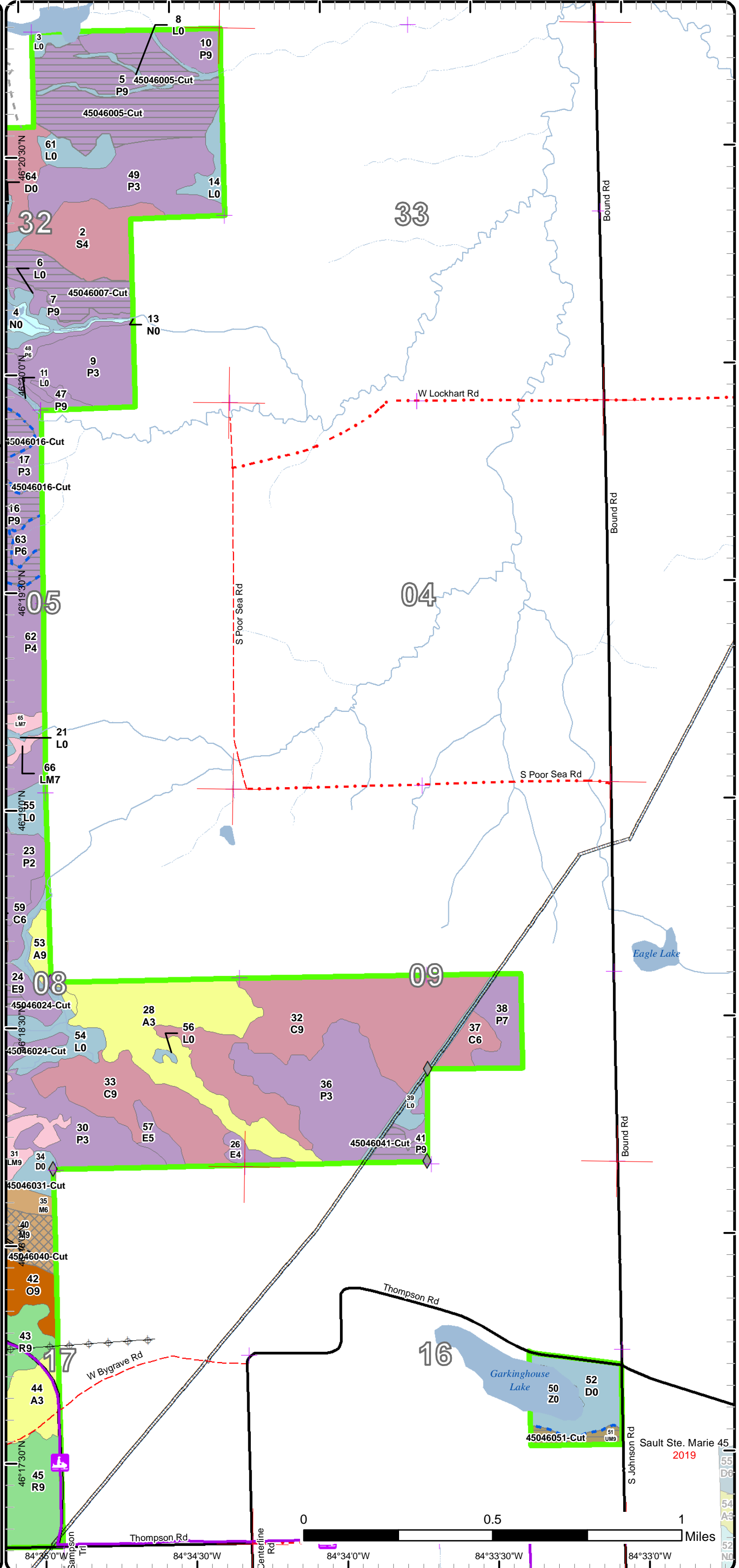
84°36'30"W 84°35'0"W 84°34'30"W 84°34'0"W

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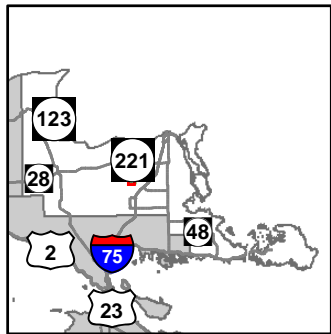
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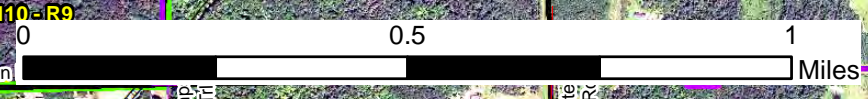
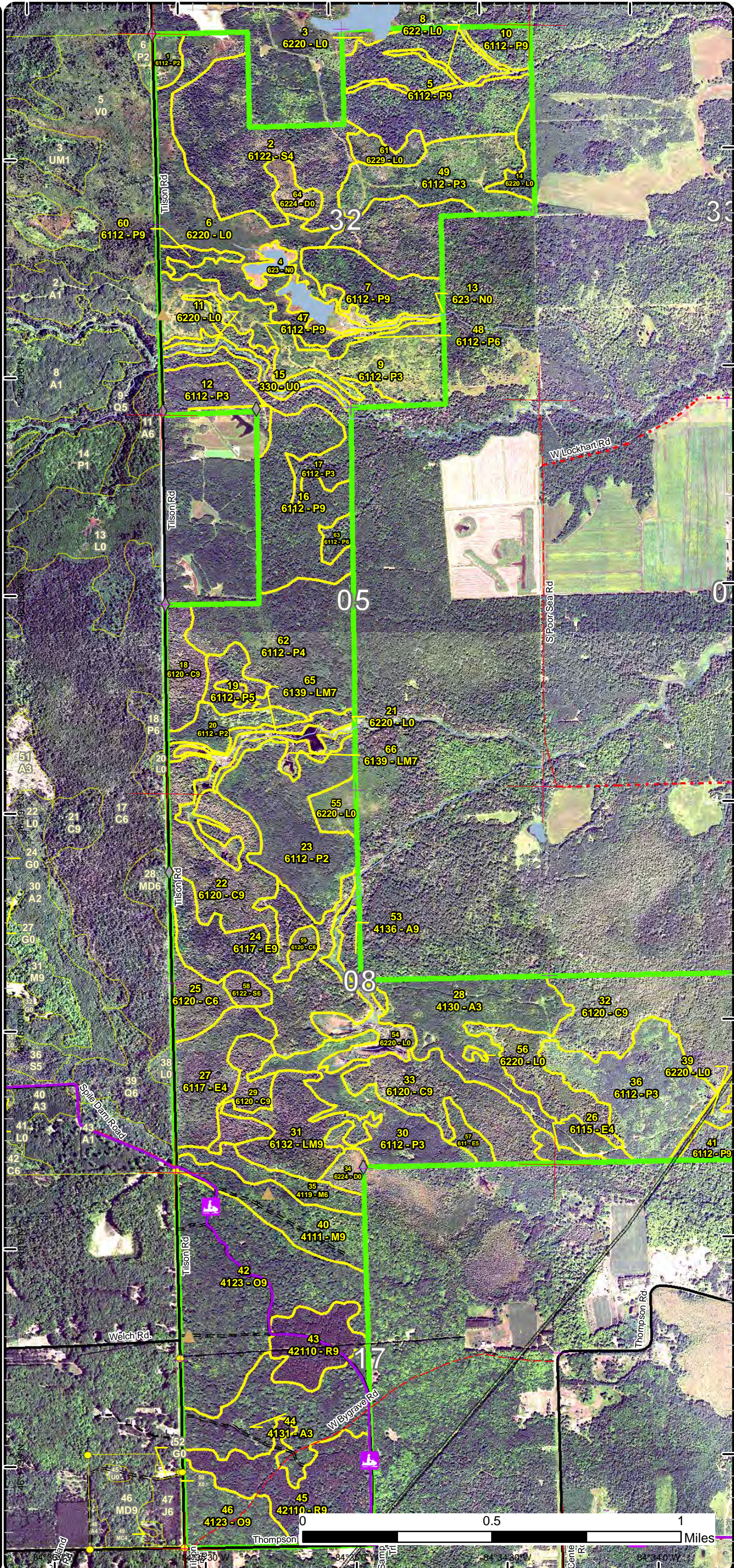
Sault Ste. Marie 45
 2019

Stand Boundary Map

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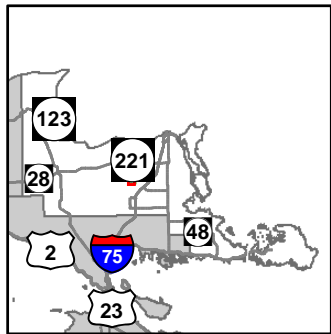


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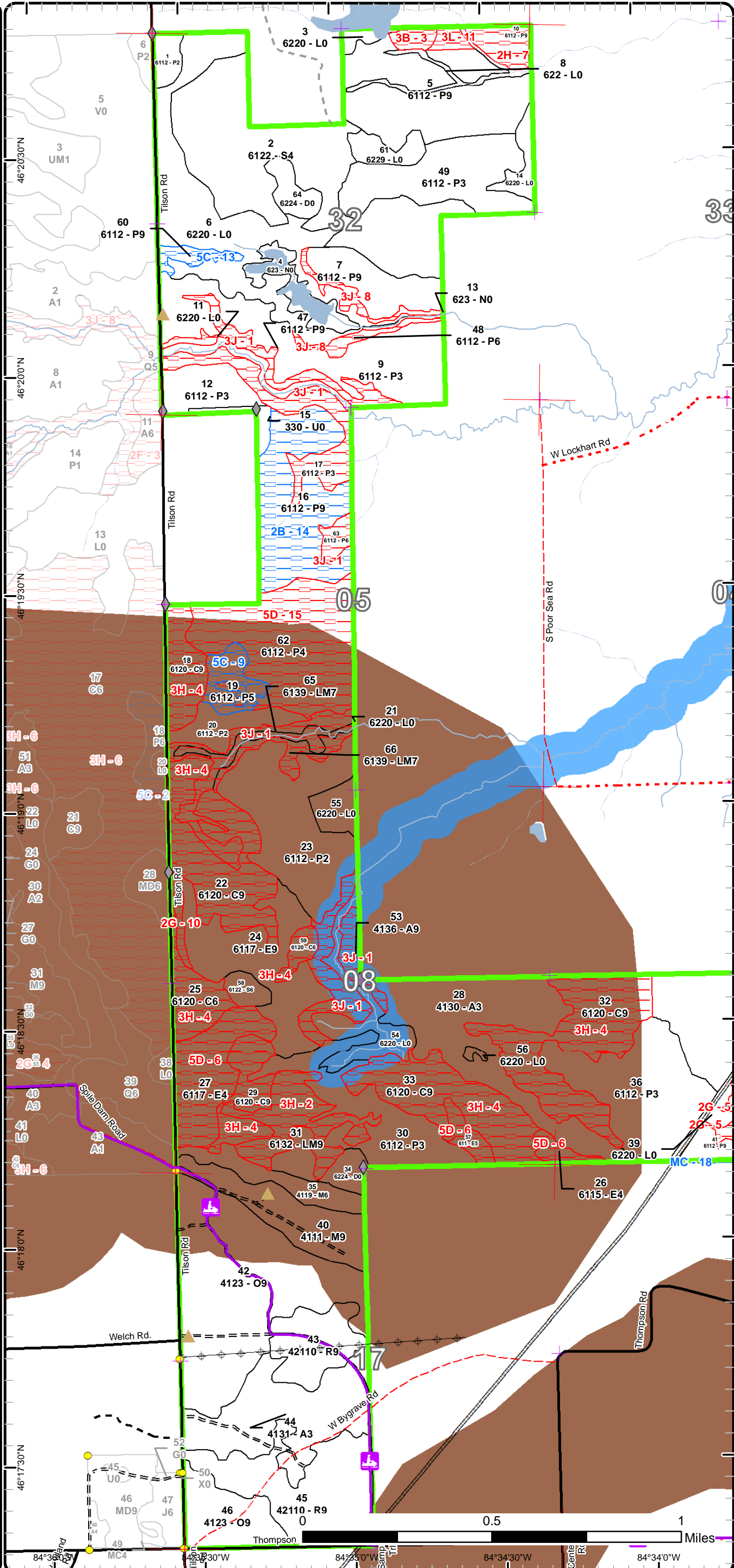


Special Conservation Areas & Site Conditions Map

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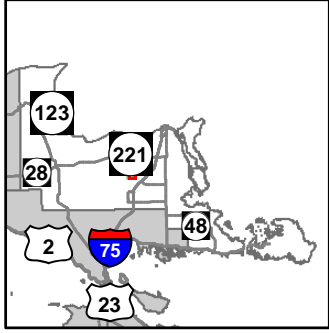


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- Stand Boundaries
- High Priority Trout Stream Buffer
- Deer Winter Range

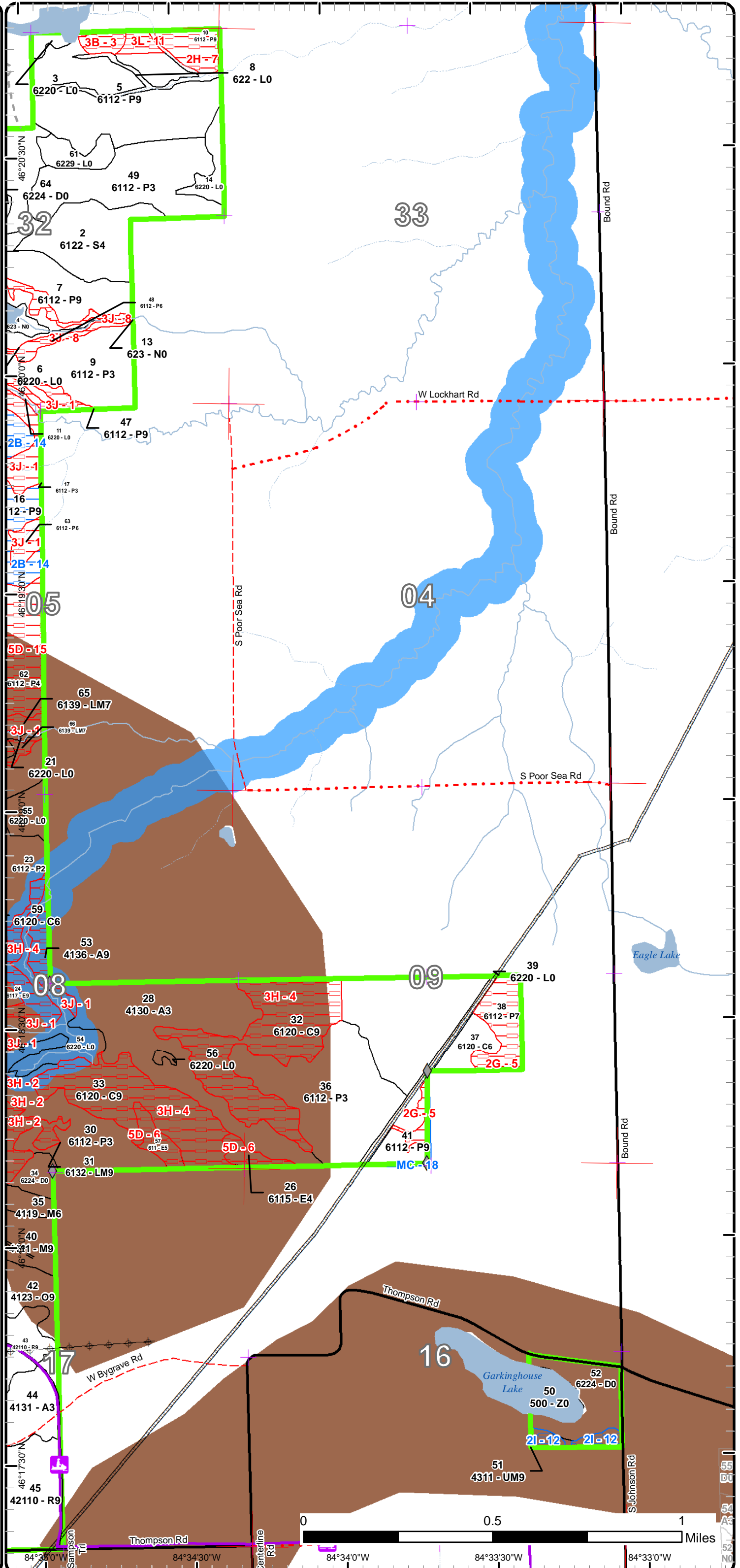


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	123	0	0	0	0	7	0	0	0	0	0	0	0	0	0	130
Cedar	0	0	0	0	0	0	0	0	16	115	61	66	0	0	0	0	0	0	257
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Aspen/Balsam Poplar	0	114	57	157	0	132	11	48	86	24	0	0	0	0	0	0	0	0	629
Lowland Deciduous	0	0	0	0	0	0	33	11	66	0	0	0	0	0	0	0	0	0	110
Lowland Mixed Forest	0	0	0	0	0	0	0	0	35	16	0	0	0	0	0	0	0	0	51
Lowland Shrub	164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	164
Lowland Spruce/Fir	0	0	0	0	0	0	107	0	0	6	0	0	0	0	0	0	0	0	113
Marsh	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Northern Hardwood	0	0	0	0	0	16	0	0	32	0	0	0	0	0	0	0	0	0	48
Oak	0	0	0	0	0	0	0	134	0	0	0	0	0	0	0	0	0	0	134
Red Pine	0	0	0	0	0	0	82	0	0	0	0	0	0	0	0	0	0	0	82
Treed Bog	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Upland Mixed Forest	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Water	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Total	228	114	57	280	0	148	233	59	359	69	115	61	66	0	0	0	0	0	1787



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2020

Acres of Harvest

Compartment 46
Total Compartment Acres: 1,785

Commercial Harvest - 208
 Harvests with Site Condition - 60
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Aspen/Balsam Poplar	147	0	0	0	0	0	0	0	0	147
Lowland Deciduous	46	0	0	0	0	0	0	0	0	46
Lowland Mixed Forest	7	0	0	0	0	0	0	0	0	7
Lowland Spruce/Fir	6	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	32	0	0	0	0	0	0	0	32
Oak	0	26	0	0	0	0	0	0	0	26
Upland Mixed Forest	5	0	0	0	0	0	0	0	0	5
Total	211	58	0	0	0	0	0	0	0	268

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	268	0	0	0	0	0	0	0	0	268
Next Step	0	0	0	0	0	0	268	0	0	268
Total	268	0	0	0	0	0	268	0	0	537



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
5	45046005-Cut	63.9	6112 - Lowland Aspen	Sawtimber Well	70	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Cut all deciduous trees down to 2 " and conifers down to 4". Leave all pine, cedar, hemlock, yellow birch and oak. Retention for this treatment will be								
<u>Specs:</u>			in the nest buffer and the strip in the NE corner connecting to stand 10.								
<u>Next Step</u>			Monitoring, Natural Regen (Intermediate)								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Acceptable regen includes aspen, birch, maple, spruce, fir, pine and cedar.								
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/1 /2019								
7	45046007-Cut	22.4	6112 - Lowland Aspen	Sawtimber Well	61	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Cut all deciduous trees down to 2 " and conifers down to 4". Leave all pine, cedar, hemlock, yellow birch and oak. The buffer along the stream is								
<u>Specs:</u>			retention for this treatment.								
<u>Next Step</u>			Monitoring, Natural Regen (Intermediate)								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Acceptable regen includes aspen, birch, maple, spruce, fir, pine, cedar.								
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/1 /2019								
16	45046016-Cut	54.8	6112 - Lowland Aspen	Sawtimber Well	49	111-140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Unknown Access								
<u>Prescription</u>			Cut all deciduous trees down to 2 " and conifers down to 4". Leave all pine, cedar, hemlock, yellow birch and oak. Retention will be in the drainages								
<u>Specs:</u>			which will be added to stand 17.								
<u>Next Step</u>			Monitoring, Natural Regen (Intermediate)								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Acceptable regen includes aspen, spruce, fir, ash, maple and birch.								
<u>Other Comment:</u>			Treatment shape will vary once all of the drainages have red line around them. Adjacent landowner to the west is agreeable to providing access for logging. His contact info is in the compartment folder.								
<u>Proposed Start Date:</u>			10/1 /2019								
24	45046024-Cut	46.1	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	73	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Cut all deciduous trees that are 2" or more in DBH and conifer trees that are 4" or more in DBH. Do not cut cedar, hemlock, pine, yellow birch or								
<u>Specs:</u>			oak. Leave one, 0.5 acre retention patch for every 10 acres of harvest (if its 50 acres there should be 5 patches). Stay out of cedar patches. Winter harvest because of the deer yard between December 1 and March 31.								
<u>Next Step</u>			Monitoring, Natural Regen (Intermediate)								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Acceptable regen includes aspen, birch, maple, spruce, fir, cedar, pine, hemlock.								
<u>Other Comment:</u>			Access off of Tilson Rd. may have to mat across wet area. Do not harvest in any wet swales. There is one paralleling Tilson Rd. Harvest stand 28 on West side of Tilson Rd. Was previously prescribed for SBW salvage but was terminated bc of small acreage.								
<u>Proposed Start Date:</u>			10/1 /2019								



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
31	45046031-Cut	6.9	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	79	141-170	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Harvest the operable portion of this stand and site condition those areas with too much cedar and that are too wet. Cut all deciduous trees down to 2" and conifer down to 4". Do not cut cedar, oak, hemlock, yellow birch or pine. If the treatment ends up being greater than 10 acres then leave a retention patch within the cut. Winter cut because of the deer yard December 1st-march 31st.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regen includes aspen, birch, maple, spruce, fir, cedar, pine, hemlock and oak.

Other

Treatment size will vary once the red line is run.

Comment:

Proposed Start Date: 10/1 /2019

40	45046040-Cut	31.7	4111 - S.Maple, Hard Mast Association	Sawtimber Well	75	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin the hardwood stand north of the bottom of the hill. Thin to 70-80 BA. Open up canopy gaps around a few oak and yellow birch to try to enhance regeneration of these species. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse to wintering deer.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regen includes maple, oak, birch, pine, hemlock, beech and ironwood

OtherComment:

Proposed Start Date: 10/1 /2019

41	45046041-Cut	5.9	6112 - Lowland Aspen	Sawtimber Well	83	111-140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Field Boundary - Ready for
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Habitat Cut: No**Site Condition:**

Prescription Cut all deciduous that is 2" or more in DBH and conifer that is 4" or more in DBH. Do not cut cedar, pine, hemlock, oak, or yellow birch.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regen includes aspen, birch, maple, spruce, fir, cedar and pine

Other

Treatment approved via the post compartment review process.

Comment:

Proposed Start Date: 8 /8 /2018

46	45046046-Cut	25.8	4123 - Red Oak	Sawtimber Well	75	111-140	Harvest	Single Tree Selection	412 - Oak Types	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to 70-80 ba. Remove any dying oak and all aspen. Make a larger canopy gap around 1 oak per acre to attempt to increase regeneration of oak.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regen includes oak, maple, aspen, birch, ironwood, pine, spruce and fir.

OtherComment:

Proposed Start Date: 10/1 /2019



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
51	45046051-Cut	5.4	4311 - Pine, Aspen Mix	Sawtimber Well	75	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition: Survey Needed

Prescription Cut all deciduous trees that are 2" or more and all conifers that are 4" or more. Do not cut oak, cedar, hemlock or yellow birch. Mark so white pine to be left focusing on the large wolfy trees.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Acceptable regen includes aspen, birch, spruce, fir, pine, oak, cedar and maple.

Other Comment:

Proposed Start Date: 10/1 /2019

58	45046058-Cut	5.5	6122 - Black Spruce	Poletimber Well	88	111-140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Cut all conifer trees that are 4" or more in DBH and all deciduous trees that are 2" or more in DBH. leave all cedar, hemlock, pine, oak and yellow birch. Cut in the winter with the adjacent stand.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Acceptable regen includes spruce, fir, birch, aspen, red maple, cedar, hemlock and pine.

Other Comment:

Proposed Start Date: 10/1 /2019

28	45047028-Cut	5.6	4190 - Mixed Upland Deciduous with Cedar	Poletimber Well	89	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Cut all deciduous trees that are 2" or more in DBH and conifer trees that are 4" or more in DBH. Do not cut cedar, hemlock, pine, yellow birch or oak.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Acceptable regeneration includes maple, aspen, birch, spruce, fir, pine, cedar.

Other Comment: There is red line around a portion of this stand from the old SBW treatment that use to be on it. Sell with stand across the road in compartment 46.

Proposed Start Date: 10/1 /2019

Total Treatment Acreage Proposed: 274.0

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 46

Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions									
		With Condition	Not Available		2B	2I	5C	2G	2H	3B	3H	3J	3L	5D
130	123	0	7	Aspen								7		
258	55	0	203	Cedar							203			
4	4	0	0	Low-Density Trees										
628	396	71	161	Lowland Aspen/Balsam Poplar	55		17	18	10	4		54	3	72
110	46	0	64	Lowland Deciduous				4				16		44
51	7	0	44	Lowland Mixed Forest							28	16		
164	149	0	15	Lowland Shrub				0				15		
112	112	0	0	Lowland Spruce/Fir										
15	15	0	0	Marsh										
48	48	0	0	Northern Hardwood										
134	134	0	0	Oak										
81	81	0	0	Red Pine										
35	35	0	0	Treed Bog										
6	0	5	0	Upland Mixed Forest		5								
9	9	0	0	Water										
1,785	1,214	77	494	Total Forested Acres	55	5	17	22	10	4	231	107	3	116
	68%	4%	28%	Relative Percent										

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	97	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Buffer for the river and retention for adjacent clearcut.							
2	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	28	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: This portion of the stand has too much cedar and is too wet to be operable.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 46

Year of Entry: 2020

3	Unavailable	3B: Threatened, endangered, and special concern species	4	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	203	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar stands within the deer yard. The eastern portion of stand 32 is not in the deer yard.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5D: Unproductive Forest Land	44	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	10	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: Ravines on state land are quite steep and block access into this stand. It may be possible to access the stand through private. Explore this option in 10 years.							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Buffer for wetland and stream and retention for adjacent clearcut.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 46

Year of Entry: 2020

9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Approximate location of the wet swale/drainage that runs parallel to the road.							
11	Unavailable	3L: Other wildlife concerns	3	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: WLD wanted a leave strip in this location to connect to stand to the east. Will also serve as retention for the treatment.							
12	Available	2I: Survey needed	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	2B: Unknown if access through adjacent landowner(s) is possible	55	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments: We may not need a survey for this stand. Record indicate that the corners are in but I was only able to find the corner on the NW of this stand							

15	Unavailable	5D: Unproductive Forest Land	72	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	Minor Change in Acreage	2				
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6112 - Lowland Aspen	Sapling Medium	6.3	6	Immature	Stand was cut in November 2012. Good natural regen coming in to a mix of aspen and red maple with scattered birch. Some scattered pole size tamarack at the south end of the stand.
2	6122 - Black Spruce	Poletimber Poor	106.9	56	1-50	Sparse stand of black spruce mixed with clumps of quaking aspen. Stand is heavy to tag alder. Black spruce is young. Aspen is larger and older. As this stand continues to mature we should be able to better type out forested vs non-forested areas.
5	6112 - Lowland Aspen	Sawtimber Well	71.1	70	81-110	Stand contains a mix of old aspen and pole sized red maple. Red maple is in good shape, aspen is in tough shape. Lots of advanced regen. Stand was dropped from old timber sale because of T&E species.
7	6112 - Lowland Aspen	Sawtimber Well	28.0	61	81-110	Stand sits on slightly higher ground than the surrounding area. Nice stand of aspen, red maple and balsam fir. There are areas of smaller pole size trees. Lots of advanced regen. The stand is currently under contract but the red paint has faded quite a bit.
9	6112 - Lowland Aspen	Sapling Well	63.3	5	Immature	Stand was cut in the winter of 2012-2013. All paper birch, oak, hemlock, pine, yellow birch, cedar, ash tamarack and elm were left if present along with scattered yellow marked trees. Regen is doing well. I was able to drive my sled to the back of this stand. The regen is doing quite well but there are a few patches of grass opening and tag alder. Most of the birch that was left is dead.
10	6112 - Lowland Aspen	Sawtimber Well	9.5	70	81-110	Decent stand of mixed species. Aspen is in tough shape. Red maple, oak, and white spruce look good. The understory varies from thick spruce/fir to areas of tag alder and red maple. Over all the stand is fairly thin.
12	6112 - Lowland Aspen	Sapling Well	17.1	27	201+	Stand was cut in 1991. Aspen has regenerated fairly well with a few areas being sparse. There is a little bit of red pine along the road most likely came from the PVT.
16	6112 - Lowland Aspen	Sawtimber Well	54.8	49	111-140	Decent stand of aspen. I do notice a fair amount of hypoxylum within the stand. Hazel brush is heavy within the understory. There are a few drainages within the stand that flow West to East. The stand is almost log size. The paper birch is starting to fall apart in this stand.
17	6112 - Lowland Aspen	Sapling Well	23.9	27	Unspecified	Stand was cut in 1991. Aspen has regenerated fairly well with a few areas being sparse.
18	6120 - Lowland Cedar	Sawtimber Well	17.7	116	141-170	Large diameter cedar with some patches of fir, spruce and tag alder. This stand is a little more open than other cedar stands in the area. Stand contains a lot of blowdown balsam and cedar. Stand gets a little more mixed along the edges.
19	6112 - Lowland Aspen	Poletimber Medium	11.2	56	51-80	Stand varies from tag alder to aspen/fir. Ground seems fairly wet in this stand but may be operable. The stand looks healthy at this time and will hold for a future YOE.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6112 - Lowland Aspen	Sapling Medium	13.4	27	Immature	Stand was cut in 1991. OI says the stand was ruttled severely. Some large grassy areas on the north side of the stand that contain very little to no regen. Regen. is very patchy within the stand with lots of tag alder mixed in. There is a drainage that divides the stand and separates the area of aspen regen from the area of grass.
22	6120 - Lowland Cedar	Sawtimber Well	48.7	115	171-200	Stand of decent quality cedar with pockets of paper birch and other areas of black spruce and balsam fir. Balsam is coming in underneath. Fairly low deer activity.
23	6112 - Lowland Aspen	Sapling Medium	61.4	27	Immature	Cut in 1991. Pretty low wet ground with ruts still present from the harvest. The north half of this stand did not have as good of regen with lots of tag alder/willow with scattered aspen. The southern portion of this stand has really good aspen regen. It appears that the ground condition improves toward the south. You could almost draw a line through the stand and make it two stand but for now we will continue to manage it as one.
24	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	66.0	73	81-110	This stand is a mix of low and high ground. The stand is dominated by paper birch and balsam fir with aspen and red maple. There are a few patches of black spruce. Cedar is scattered throughout the stand at a very low volume. The stand is falling apart and has a lot of blown over trees laying everywhere. There seems to be a wet area/drainage that runs parallel to the road.
25	6120 - Lowland Cedar	Poletimber Well	16.0	88	171-200	Stand of younger, thick cedar stand of good quality poles. DBH seems to be larger on the perimeter of this stand. Some patches of smaller diameter cedar with balsam fir. Pockets of balsam regen exist within the understory.
26	6115 - Lowland Ash	Poletimber Poor	4.7	60	1-50	Ash and tag alder swale. Some paper birch and cedar along the edge. Lots of Hare sign.
27	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	33.0	50	1-50	Very swampy, low ground stand. Stand contains a mix of species along with different ages. Some clumps of older cedar here and there along with larger paper birch. Lots of alder and willow shrubs in this stand.
28	4130 - Aspen	Sapling Well	67.3	26	Immature	Nice stand of young aspen. Stand is well stocked and looks healthy and should be pole size next time it is inventoried. Stand consist of ridges with big tooth aspen with some oak and low areas of quaking aspen. The road through the northern part of the stand is pretty well grown in. The northern area of this stand is wetter. The Sothern finger is a dry ridge where most of the big tooth is found.
29	6120 - Lowland Cedar	Sawtimber Well	17.9	105	171-200	This stand is a little variable with most of it being decent cedar with patches of black spruce ground on leatherleaf ground.
30	6112 - Lowland Aspen	Sapling Well	41.0	23	Immature	Nice stand of aspen regeneration. Stocking is very good. Stand is healthy. OI said the stand was cut in 1995. Stand is on the border of upland/lowland with some low spots of tag alder. Upland ground has more big tooth aspen. Good mix of red maple and paper birch coming in. A few scattered oak and cherry can be found in the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
31	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	34.9	79	141-170	Stand is a mix of low ground with cedar, hemlock, yellow birch red maple and paper birch and upland ground with birch, aspen and fir. The upland ground is operable and some areas of the low ground where the cedar is not too thick.
32	6120 - Lowland Cedar	Sawtimber Well	100.9	90	141-170	Cedar stand of decent quality poles. Some areas of log size cedar mixed with red maple, and birch. Most of the stand is very thick pole size cedar with balsam fir and spruce. Other areas with an open canopy of balsam fir. There is a lot of blowdown within the stand. Decent amount of deer activity. Some areas contain heavy mountain maple within the understory.
33	6120 - Lowland Cedar	Sawtimber Well	43.2	105	141-170	Decent stand of nice log and pole sized cedar. There are some inclusions of ash/tag alder. The fir is thick in the understory in some places. Some areas contain a lot of blowdown.
35	4119 - Mixed Northern Hardwoods	Poletimber Well	15.9	40	51-80	Small clear cut. OI says it was a wildlife cut that was finished in 1978. Regen coming back is a mix of deciduous. Regen is healthy and is doing good. This is some lower ground that can be wet at times.
36	6112 - Lowland Aspen	Sapling Well	56.6	11	Immature	Stand was cut in 2007. Aspen regeneration is coming back nicely with a mix of paper birch and red maple. Scattered pole size cedar exist throughout the sale.
37	6120 - Lowland Cedar	Poletimber Well	8.6	95	Unspecified	Small stand of pole sized cedar.
38	6112 - Lowland Aspen	Sawtimber Poor	15.2	80	Unspecified	Swamp stand. Contains scattered large aspen with balsam, aspen, and bam regen underneath. Tag alder is thick in spots. Ground is very wet. Stand contains alot of blowdown.
40	4111 - S.Maple, Hard Mast Association	Sawtimber Well	31.7	75	111-140	Decent stand of hardwood. Stand was thinned in 1994. Scattered oak and yellow birch. Good advanced regen in this stand, even some yellow birch regen.
41	6112 - Lowland Aspen	Sawtimber Well	9.1	83	111-140	Stand of mature aspen and red maple. Trees are starting to die and blow over. Some deer sign in this stand. There was ice cracking under my feet as I walked through the stand.
42	4123 - Red Oak	Sawtimber Well	107.8	75	81-110	Stand was last thinned in 93-94. What remain are patches of timber with a decent BA and other areas with a low BA. Stand contains some nice oak poles and logs in some spots. Regen is terribly browsed!!!
43	42110 - Planted Red Pine	Sawtimber Well	25.3	56	111-140	This stand was last thinned in 2011. Nice stand of red pine with much less regen than the stand to the south. Understory is mostly oak, red maple, sugar maple. Small patches of pole size aspen.
44	4131 - Aspen, Oak	Sapling Well	56.1	26	1-50	This stand was harvested in 1992. it looks like they cut everything except for oak in this stand. Nice stand of young red maple and aspen with large oak scattered amongst the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	42110 - Planted Red Pine	Sawtimber Well	56.2	56	111-140	This stand was last thinned in 2011. Nice stand of red pine but very thick regen of hazel, maple and oak in the understory. This stand has a decent amount of oak and maple in the canopy. There are pockets in the stand that were "clear cut" and have good regen of aspen, oak and maple.
46	4123 - Red Oak	Sawtimber Well	25.8	75	111-140	Log size oak stand with red and sugar maple poles. Some areas in the stand are smaller in dbh.
47	6112 - Lowland Aspen	Sawtimber Well	14.5	68	111-140	This stand was left as a buffer to the river and adjoining drainages. It will serve as retention for the adjacent clearcut. Stand contains a mix of young and old aspen.
48	6112 - Lowland Aspen	Poletimber Well	5.0	60	Unspecified	Stand was left as a buffer and retention for the adjacent clearcut. Stand contains a mix of young and old aspen.
49	6112 - Lowland Aspen	Sapling Well	44.2	4	Immature	Stand was harvested in the winter of 2014. Good aspen and red maple regen. Some patches of tag alder exist throughout the stand. Scattered pole size paper birch, red maple, and fir.
51	4311 - Pine, Aspen Mix	Sawtimber Well	5.6	75	111-140	Ridge of dry ground dominated by aspen and white pine. There is a wet swale that cuts through the middle of the stand. Some black spruce and tamarack along the wetland edge.
53	4136 - Aspen, Mixed Conifer	Sawtimber Well	7.0	83	81-110	Stand is primarily on high ground adjacent to the stream. There is a tag alder swale that cuts through the middle of the stand. Stand is a mature mix of aspen, birch, red maple and balsam fir. There is not much SBW sign at this time the live trees look healthy but there are some scattered dead. This stand is within the typical 300' buffer of the stream.
57	611 - Lowland Deciduous Forest	Poletimber Medium	6.1	60	1-50	Stand is similar to stand 26. Wet swale of ash, fir and tag alder.
58	6122 - Black Spruce	Poletimber Well	5.5	88	111-140	Nice stand of black spruce that is almost log size.. Should be managed with adjacent stand.
59	6120 - Lowland Cedar	Poletimber Well	5.0	98	141-170	Lowland stand of cedar with areas of black spruce
60	6112 - Lowland Aspen	Sawtimber Well	5.4	76	81-110	Slight rise in topography. The stand is a little higher and drier along the north side with larger timber. It transitions to lowland as you go south with smaller pole size aspen and red maple.
62	6112 - Lowland Aspen	Poletimber Poor	72.0	49	1-50	Very poor wet ground. Supporting scattered pole and sapling size trees along with clumps of aspen. The stand is fully stocked of aspen/willow. I do not see any chance of logging in this stand anytime in the near future. The eastern portion of this stand has the greatest likelihood of supporting a timber sale in some of the aspen clumps but not for some time.
63	6112 - Lowland Aspen	Poletimber Well	4.9	49	Unspecified	Decent stand of aspen. I do notice a fair amount of hypoxylum within the stand. Hazel bruch is heavy within the understory. There are a few drainages within the stand that flow West to East.

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Sault Ste. Marie Mgt. Unit

Report 7 – Forested Stands

Compartment: 46
Year of Entry: 2020



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	6139 - Mixed Lowland Forest	Sawtimber Poor	7.9	82	51-80	Stream corridor with timber along the edges. A lot of beaver activity present along the stream. Stand is a mix of species with lots of conifer in the understory.
66	6139 - Mixed Lowland Forest	Sawtimber Poor	7.8	82	51-80	Stream corridor with timber along the edges. A lot of beaver activity present along the stream. Stand is a mix of species with lots of conifer in the understory.



Stand	Cover Type	Acres	Managed Site	General Comments:
3	6220 - Alder/willow	3.5	No	
4	623 - Emergent Wetland	13.8	No	Multiple beaver dams/ponds
6	6220 - Alder/willow	76.4	No	Alder/willow stand with aspen, paper birch, BAM, fir, red maple and spruce. There are a few clumps of pole size aspen. The northern end is more of a treed bog.
8	622 - Lowland Shrub	6.2	No	Stream and drainages
11	6220 - Alder/willow	7.9	No	
13	623 - Emergent Wetland	1.2	No	
14	6220 - Alder/willow	7.4	No	
15	330 - Low-Density Trees	4.5	No	This stand is a bit of slop over from the private land. In contains some grass opening and planted pine.
21	6220 - Alder/willow	15.0	No	Stream corridor with timber along the edges. A lot of beaver activity present along the stream.
34	6224 - Treed Bog	6.2	No	Tamarack, black spruce, paper birch
39	6220 - Alder/willow	8.5	No	Gas line growing in with tag alder, willow, spruce and tamarack
50	500 - Water	9.3	No	Garlinghouse Lake.
52	6224 - Treed Bog	20.5	No	Bog area that is supporting some trees. Mostly white pine, tamarack, black spruce and jack pine.
54	6220 - Alder/willow	20.5	No	Alder brush with a stream through the middle. Multiple beaver dams/ponds. South Branch of the Waiska river with is a trout stream.
55	6220 - Alder/willow	8.8	No	Wet area looks like tag alder with an old beaver pond in the middle.
56	6220 - Alder/willow	0.9	No	Nice stand of young aspen. Stand is well stocked and looks healthy and should be pole size next time it is inventoried. Stand consist of ridges with big tooth aspen with some oak and low areas of quaking aspen.
61	6229 - Mixed lowland shrub	8.4	No	Sparse stand of black spruce mixed with clumps of quaking aspen. Stand is heavy to tag alder. Black spruce is young. Aspen is larger and older.



Stand	Cover Type	Acres	Managed Site	General Comments:
64	6224 - Treed Bog	8.4	No	Alder/willow stand with aspen, paper birch, BAM, fir, red maple and spruce. There are a few clumps of pole size aspen. The northern end is more of a treed bog.