

Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 50
Entry Year 2016

Acreage: 1,151
County Chippewa

Management Area: Waishkey Bay

Revision Date: 07/02/2014

Stand Examiner: Josh Brinks

Legal Description:

T46N R02W Sections 2, 3, 4, 10, T 47N R02W Sections 26, 30, 31

Identified Planning Goals:

Begin managing stands which meet silvicultural criteria and can be accessed. There is currently an open sale contract in this compartment to manage some of the black spruce stands and ridges of aspen. No further treatments are being proposed at this time. Work with Brimley State Park to enhance recreational opportunities in area. Continue to maintain and sign recreation trails located in the compartment.

Soil and topography:

The soil association in this compartment is a Fibre-Allendale-Pickford. The Fibre and Pickford soils are found on the broad flats and in the drainage ways, they are frequently ponded. The Allendale soils are in the slightly higher landscape positions or on the low knobs (USDA Soil Conservation Service). The majority of topography is low and relatively flat there are a few areas with steep hilly terrain.

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

Brimley State Park is found to the north west of the compartment. It is a modern campground with mini-cabins and many features including a picnic area, year-round interpretive program, and a playground. This campground offers the warmest swimming in Lake Superior's Whitefish Bay. This compartment is an isolated block of land managed by the DNR. The rest of the surrounding area consists of private ownership with a mix of both permanent and seasonal residences.

Unique Natural Features:

The compartment contains many natural bogs.

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:

Steep ridges and high water table make access and management difficult in this compartment. As resources available and lowland logging practices improve more of this compartment will be able to be accessed. It should also be noted that a portion of this compartment is located adjacent/within the Bay Mills Wetland Preserve. Special consideration should be given when making management decisions in this area.

Watershed and Fisheries Considerations:

This compartment is in the Eastern Lake Superior Management Unit. The state threatened lake sturgeon (Ascipenser fulvescens) is known to use shallow, clear, rocky portions of the Waishkey River for spawning. Several drainages and intermittent streams run from the compartment into the river. Just maintain a minimum no clearcut buffer of 100 feet where appropriate. Selective cut can be within 75 feet of the stream bank. Waiska River is primarily warmwater so much beaver activity is not going to be detrimental to the fisheries that is offered.

Wildlife Habitat Considerations:

The majority of this compartment is located along the Waiska River near Brimley State Park, and is composed of lowland stands—hardwoods and mixed conifers. The remainder is cedar and lowland hardwoods in a coastal area on the west side of Brimley Bay. Some lowland spruce will be regenerated, and will benefit snowshoe hare.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) clay and silt. The glacial drift thickness varies between 100 and 200 feet. The Cambrian Munising Sandstone and the Precambrian Jacobsville Sandstone subcrop below the glacial drift. The Jacobsville was previously used as a building stone. A pit is located in Section 4 and gravel potential appears to be limited. A 1305 foot exploratory test into the Precambrian rocks was drilled and abandoned in 1973. There is no current economic oil and gas production in the UP.

Vehicle Access:

Access into the interior of the compartment is poor. There are limited trails many of these are impassible during different parts of the year. The only vehicle access into the compartment is by the Brimley Grade and this is gated off during the non-snow covered months.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The snowmobile trail is heavily used during the season. Opportunities for deer and small game also present themselves. The Wiashkey River provides fishing, canoeing, and other water related adventures. Bird watching and berry picking are also potential activities

Fire Protection:

Poor access and steep terrain are a concern. However; the current cover types are not known for frequent or explosive fire events.

Additional Compartment Information:

Round island in Lake Superior is also associated with this compartment. The portion of the compartment located on Back Bay is not being managed in order to promote and enhance the objectives associated with the Bay Mills Wetland Preserve which surrounds the property.

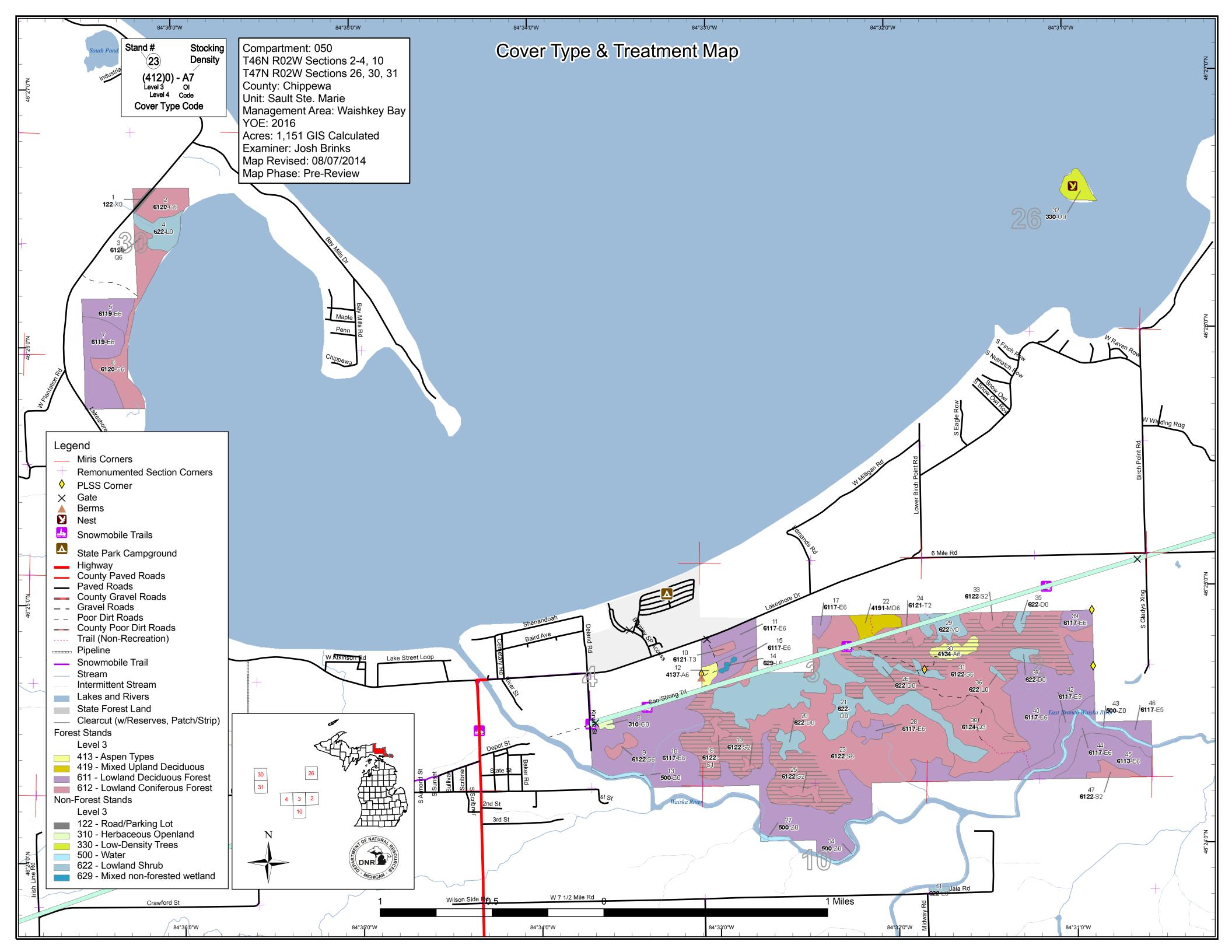
The following reports from the Inventory are attached:

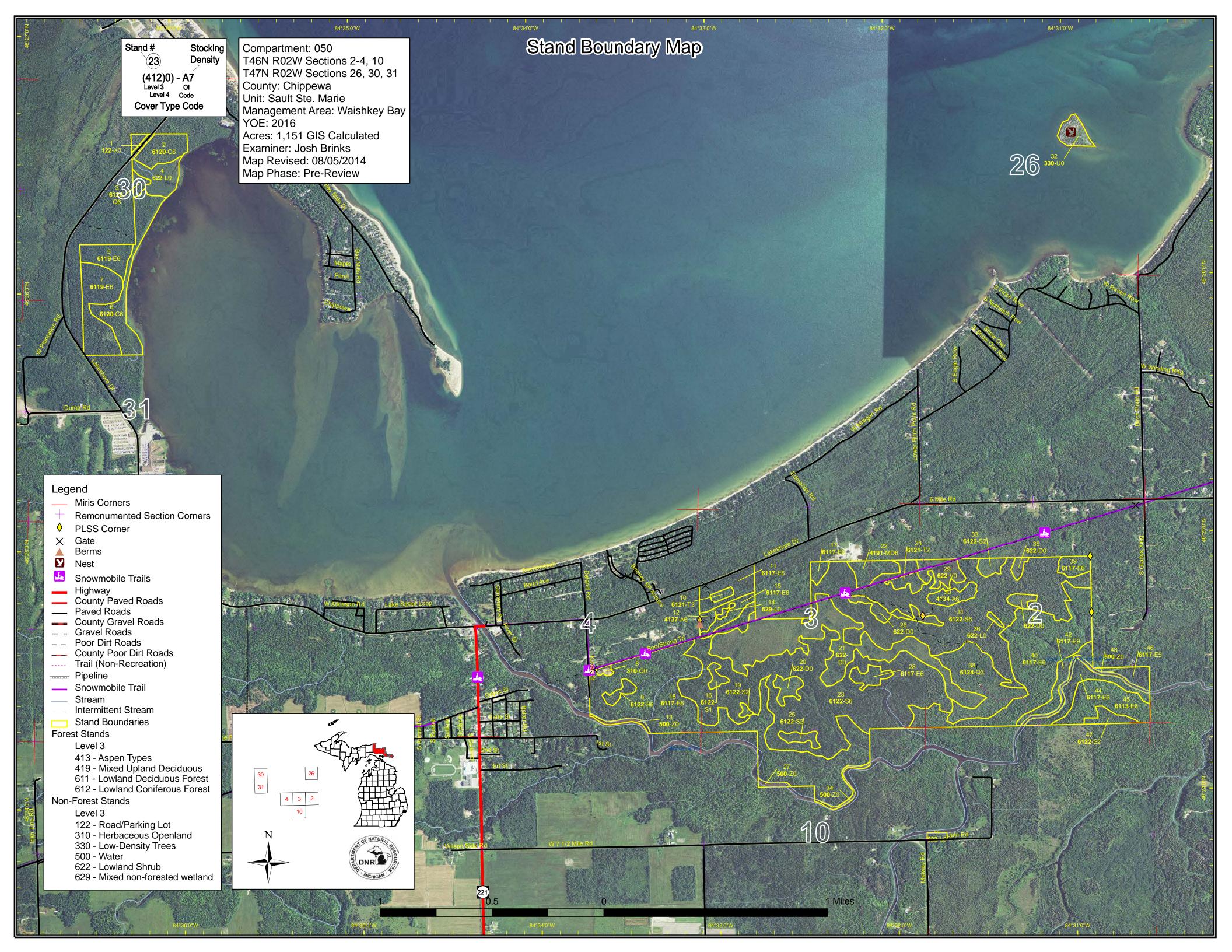
Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

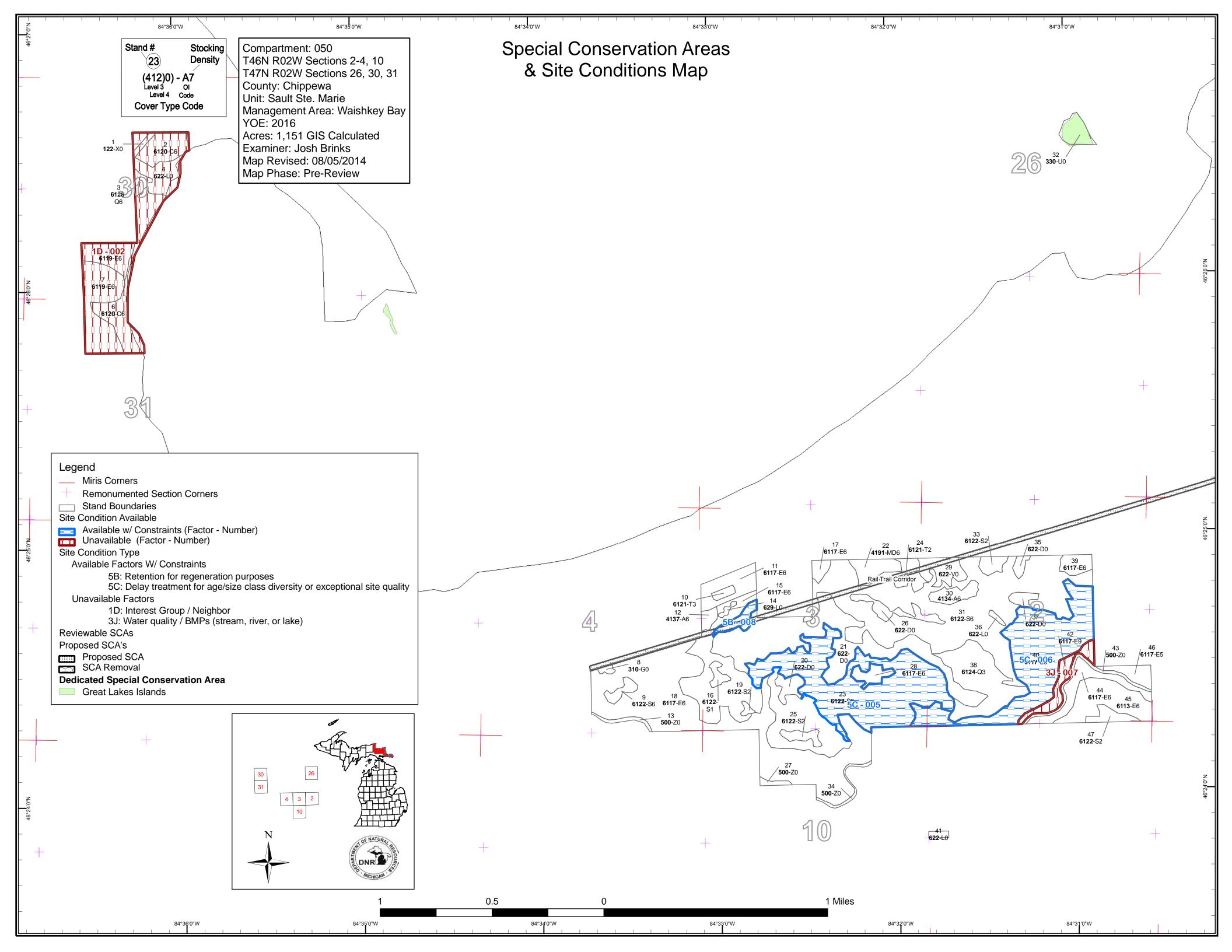
The following information is displayed, where pertinent, on the attached compartment maps:

Base feature information, stand boundaries, cover types, and numbers Proposed treatments

Site condition boundaries
Details on the road access system







Compartment 050 Year of Entry 2016

Sault Ste. Marie Mgt. Unit

Josh Brinks: Examiner



Age Class

			Age Class													
		6.0	70.79	S. S	\$0.00°	AD AS	\$ / S	\$0.00	S. P.	00 00 00 00 00 00 00 00 00 00 00 00 00	85.05	on on the second	70,73	70× / 10°	S / S	, so
Aspen	0	0	0	0	4	0	0	0	8	0	0	0	0	0	12	
Bog	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13	
Cedar	0	0	0	0	0	0	18	0	0	32	0	0	0	0	50	
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Low-Density Trees	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
Lowland Conifers	0	0	44	0	0	0	0	3	0	0	0	0	0	0	47	
Lowland Deciduous	0	0	0	15	0	17	67	213	111	0	0	0	0	0	423	
Lowland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	19	
Lowland Spruce/Fir	0	0	0	0	21	5	185	0	214	0	0	0	0	0	425	
Mixed Upland Deciduous	0	0	0	0	0	11	0	0	0	0	0	0	0	0	11	
Tamarack	0	0	3	0	5	0	0	0	0	0	0	0	0	0	8	
Treed Bog	118	0	0	0	0	0	0	0	0	0	0	0	0	0	118	
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Water	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15	
Total	176	0	46	15	30	33	270	217	333	32	0	0	0	0	1151	



Report 2 – Proposed Treatment Summaries

Sault Ste. Marie Mgt. Unit Year of Entry 2016

Compartment 050
Total Compartment Acres: 1,151

Acres by Treatment Type

Other - 0

Commercial Harvest - 198 Tree Planting - 0

Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

		Cover Type by Harvest Method									
	/	The second secon									
Aspen Types		8	0	0	0	0	0	8			
Lowland Coniferous Forest		189	0	0	0	0	0	189			
	Total	198	0	0	0	0	0	198			

Sault Ste. Marie Mgt. Unit

Report 3 -- Treatments Prescribed with No Limiting Factor

Compartment: 050 Year of Entry 2016

a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
23	45050023-Cut	85.8	6122 - Black Spruce	High Density Pole	83	141-170	Harvest	Clearcut with Reserves	6122 - Black Spruce	Fld. Tr. Bdy.

Prescription Cut all trees 4 inches or more in DBH. Leave all pine, hemlock, cedar, oak and yellow birch if it exists within the sale.

Specs:

s

Other Comments:

<u>Next</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, paper and yellow birch, white pine, spruce, fir, jack pine, red pine, aspen and tamarack.

Steps:

Proposed

Start Date: 10/01/2011

30 45050030-Cut 8.3 4134 - Aspen, High 81-110 Harvest Clearcut with 413 - Aspen Fld. Tr. Bdy. Spruce/Fir Density Reserves

Prescription Cut all trees that are at least 4 inches in DBH. Leave all pine, oak, cedar, hemlock and yellow birch if they exist within the sale. Specs:

<u>Other</u>

Comments:

Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, paper and yellow birch, <u>Next</u> Steps:

white pine, spruce, fir, jack pine, red pine, and tamarack.

<u>Proposed</u>

Start Date: 10/01/2011

45050031-Cut 103.5 6122 - Black Spruce High 68 111-140 Harvest Clearcut with 6122 - Black Spruce Fld. Tr. Bdy. Reserves Density

Pole

Pole

Prescription Cut all trees at least 4 inches in DBH. Leave all pine, cedar, hemlock, oak and yellow birch.

Specs:

Other Comments:

Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is maple, paper and yellow birch, white <u>Next</u>

Steps: pine, spruce, fir, jack pine, red pine, aspen, cedar and tamarack.

Proposed

10/01/2011 Start Date:

Total Treatment

Acreage Proposed: 197.6

Sault Ste. Marie Mgt. Unit Report 4 -- Treatments Prescribed with Compartment: 050 a Site Condition s Year of Entry 2016 t **Treatment** Acres CoverType Size Stand ВА **Treatment Treatment Cover Type Approval** n Objective Method Status Name Range Density Age Type #Type! #Type! **Prescription** Specs: Other Comment: <u>Next</u> Steps: <u>Proposed</u> #Type! Start Date:

Total Treatment

Limiting Factor

Acreage Proposed: 0.0

Sault Ste. Marie Mgt. Unit Josh Brinks: Examiner

Compa	rtment	050
Year of	Entry	2016

Avail	ability for l	Management						
Total	Acres	Acres	I	Domina	nt Site	Cond	ditions	S
Acres	Available	Not Available		No	5C	5B	3J	1D
12	12		Aspen	12				
50		50	Cedar					50
47	44	3	Lowland Conifers	44				3
423	360	63	Lowland Deciduous	263	97		13	50
424	424		Lowland Spruce/Fir	296	122	6		
11	11		Mixed Upland Deciduous	11				
8	8		Tamarack	8				
974	858	116	Total Forested Acres	633	219	6	13	103
	88%	12%	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.

	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
002	Not Available	1D: Interest Group / Neighbor	119	2E: Road needed			
	omments: urrounded by Bay	Mills Wetland Preserve					
005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	122				
С	omments:						
006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	97				
С	omments:						

Report 5 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks: Examiner

Compartment 050 Year of Entry 2016

007	Not Available	3J: Water quality / BMPs (stream, river, or lake)	13	2F: Too steep
С	omments:			
800	Available	5B: Maintain for regeneration purposes	6	
С	omments:			

Sault Ste. Marie Mgt. Unit

Compartment: 050 Year of Entry: 2016



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
Rail Trail Corridor Comments	Concentrated Recreation Area	Rail-Trail Corridor	SCA	126.3

Sault Ste. Marie Mgt. Unit Compartment: 050

Year of Entry 2016



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 Conservation **Description Type** SCA = Special Conservation Area Area

Sault Ste. Marie S t		e Mgt. Unit		Report 8	– Forested	Stands Compartment: 050 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6120 - Lowland Cedar	High Density Pole	18.0	60	81-110	Short small diameter cedar with some black spruce poking out above it. Very poor quality and very wet.
3	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	3.3	73	81-110	Stand of mixed conifers that is very wet.
5	6119 - Mixed Lowland Deciduous Forest	High Density Pole	15.1	30	51-80	Stand appears to have been picked over in the past giving it a two aged look with lots of younger trees under some scattered larger trees. Stand is mostly unmerchantable at this time.
6	6120 - Lowland Cedar	High Density Pole	31.8	91	141-170	Cedar stand bordering the bay. Very thick with some deciduouos trees scattered throughout.
7	6119 - Mixed Lowland Deciduous Forest	High Density Pole	34.5	72	81-110	Very nice pole size stand of paper birch, aspen with ash closer to the shoreline and red maple further away.
9	6122 - Black Spruce	High Density Pole	4.5	51	51-80	Low wet ground in the middle of the deciduous stand. Some cedar along the edges.
10	6121 - Tamarack	High Density Sapling	2.5	20		This stand was an old settling pond which has been abandoned. Most of the stand is tamarack with some paper birch and oak on the west end.
11	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	17.0	59	81-110	Old lake bottom ridge and swale topography that can be seen on the air photo. The low areas have more tag alder and conifers while the ridges have maple, paper birch, and aspen. Areas of sapling size trees exist on both ends of this stand. This stand is everything below the old shoreline.
12	4137 - Aspen, Birch	High Density Pole	3.5	43	51-80	Stand looks like it was cut in the past. Aspen and paper birch with a few areas of tag alder. There are some pines growing along the property line.
15	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	8.8	67	81-110	Nice stand of red maple and paper birch. Cedar present in stand as you transition into spruce.
16	6122 - Black Spruce	Low Density Sapling	3.5	40		Treed bog converted to S1
17	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	4.0	60	111-140	Smaller pole size hardwood. Stand is located right on the edge of the old shoreline.
18	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	161.4	73	111-140	A great lowland deciduous stand. There is a large gully that divides the stand. Some of the aspen is starting to decline but most of it should hold. Understory is thick in places and has a lot of balsam fir. HIlly topography in this stand that runs downhill to the river. Scattered cedar through the stand especially on the east edge.
19	6122 - Black Spruce	Medium Density	1.4	40		Treed bog converted to a spruce stand.



S t	Sault Ste. Marie	Mgt. Unit		Report 8	Forested	Stands Compartment: 050 Year of Entry: 2016			
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:			
22	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	10.9	56	81-110	Younger/smaller stand of birch, maple and aspen with conifer. Thick understory dominated by balsam fir. Lots of sappling and small pole size deciduous trees in areas. Some large wolfy aspen.			
23	6122 - Black Spruce	High Density Pole	213.9	83	141-170	Nice black spruce stand. Some of the wetter areas are not as great and have more tag alder. Some steep ridges in this stand. Ridges are dry and have pines growing on them.			
24	6121 - Tamarack	Medium Density	5.4	46		Treed bog which has converted to a tamarack stand.			
25	6122 - Black Spruce	Medium Density	4.9	40		Treed bog converted to a spruce stand.			
28	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	7.2	69	81-110	Area where aspen is growing over the spruce. Ground is a little higher than the surrounding area.			
30	4134 - Aspen, Spruce/Fir	High Density Pole	8.3	83	81-110	This stand is a ridge of aspen growing over top of spruce and fir. Thick understory with lots of paper birch, maple and aspen saplings.			
31	6122 - Black Spruce	High Density Pole	185.0	68	111-140	Large stand of black spruce. There are some areas within the stand of smaller diameter trees. Trees get smaller and less dense as you transition into the bog. Drier ground is supporting deciduous trees. Scattered log size white pine.			
33	6122 - Black Spruce	Medium Density	5.1	46		Stand has converted from treed bog to a sapling spruce stand.			
38	6124 - Lowland Spruce- Fir	High Density Sapling	43.6	26		Stand regenerated nicely after being cut in 1987. Drier areas have spruce, birch, aspen, and maple. Wetter areas have tamarack and spruce. Part of the bog was cut and has not filled in as well. Stand is boardering a pole size stand.			
39	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	7.3	66	81-110	Mixed stand that is similar to the stand to the south.			
40	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	97.6	81	81-110	Mixed stand of red maple and aspen. Some patches of cedar. Aspen is old and poor quality and a lot of it is starting to die.There are areas where the stand is more log size but most of it is pole. There are steep drainages that run down to the river. A lot of balsam fir in the understory.			
42	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	13.0	86	81-110	Steep hill down to the river. Some areas of tag alder adjacent to the river.			
44	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	17.5	74	81-110	Aspen and ash with mixed conifers. Seems to be more cedar o the east end of the stand. Some areas of tag alder bottom land located directly adjacent to the river.			
45	6113 - Lowland Maple	High Density Pole	31.7	66	81-110	Stand is mostly red maple. Could be harvested if we got access into the area. Some hemlock and cedar scattered in the stand.			

s t	Sault Ste. Mari		Report 8	– Forested	Stands Compartment: 050 Year of Entry: 2016	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	7.9	63	81-110	Portions of this stand along the rivers edge are a tag alder bottom land. As you go up the hill its quickly transitinos into bam and conifers. Some canopy gaps with really good regeneration. Lots of deer trails.
47	6122 - Black Spruce	Medium Density	6.3	40	1-50	Treed bog with enough trees to be a forested stand. Mostly sapling size with some bigger trees along the edge.

Compartment: 050 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	122 - Road/Parking Lot	1.8	Unspecified	Unspecified	
4	622 - Lowland Shrub	14.7	Unspecified	Unspecified	Lowland shrub stand with some scattered cedar, spruce and tamarack
8	310 - Herbaceous Openland	1.6	Unspecified	Unspecified	Old pits that are often filled with water in wet times of the year.
13	50 - Water	2.7	Unspecified	Unspecified	
14	629 - Mixed non-forested wetland	1.2	Unspecified	Unspecified	This stand contain to small ponds seperated by a treed bog. The ponds were dug by the park back in the day.
20	6224 - Treed Bog	6.6	Unspecified	Unspecified	
21	6224 - Treed Bog	95.3	Unspecified	Unspecified	
26	6224 - Treed Bog	9.4	Unspecified	Unspecified	
27	50 - Water	2.0	Unspecified	Unspecified	
29	6225 - Bog	12.7	Unspecified	Unspecified	
32	330 - Low-Density Trees	9.1	Unspecified	Unspecified	Round Island. There is an old fondation on the island. The island is a blue heron rookery. Most of the trees have wind and ice damage.
34	50 - Water	2.9	Unspecified	Unspecified	
35	6224 - Treed Bog	2.9	Unspecified	Unspecified	
36	622 - Lowland Shrub	1.1	Unspecified	Unspecified	
37	6224 - Treed Bog	3.8	Unspecified	Unspecified	
41	622 - Lowland Shrub	1.6	Unspecified	Unspecified	This parcel was given to us by the MUCC as access to the river.
43	50 - Water	6.9	Unspecified	Unspecified	