



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45002

Entry Year 2019

Acreage: 2,099

County Chippewa

Management Area: Maxton Plains

Revision Date: 2017-07-27

Stand Examiner: Jeff Wise

Legal Description:

T43N R6E, Sections 21, 27, 28, 29, 30, 32, 33, 34

Identified Planning Goals:

This compartment is on Drummond Island on the Maxton Plains area, and contains the rare Alvar habitat type that has historically been managed for its maintenance and preservation. Some treatments have occurred in the way of harvesting of mature aspen stands to maintain health and sustainability of that forest type, but not in the vicinity of the Alvar. Although there are mature aspen stands in this compartment, no harvesting treatments will be recommended at this time due to Forest Certification Work Instruction 1.4 - pertaining to SCAs, Special Conservation Areas. Access into these stands would require undue compromising of Alvar. The only treatments' recommended are for monitoring and exterminating invasive species on the Alvar.

Soil and topography:

Potagannissing-Rock outcrop-Summerville: Exposed limestone bedrock and shallow, level to steep, poorly drained and well drained, loamy soils on ground moraines and glacial lake benches in the north part of the compartment. Shelter-Posen-Summerville: similar to above but a deeper soil in the south part of the compartment.

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

Large block of State land interspersed with private holdings with little (no) developments except a few scattered hunting camps and seasonal homes along the shoreline. The area is primarily used for hunting, habitat viewing, and wildlife management. The compartment also borders the north shore of the island for approximately one mile and includes the shore of Grand Marais Lake. Other major ownership on the Maxton Plains is approx 840 acres belonging to the Nature Conservancy. Most of the shoreline in this compartment is privately owned.

Unique Natural Features:

This compartment is primarily the Maxton Plains area, the Alvar habitat classification usually containing many threatened and endangered species. Alvar is a rare plant community which thrives on shallow soil overlying limestone bedrock. MNFI has been consulted and comments received regarding potential and documented T & E species.

Archeological, Historical, and Cultural Features:

Evidence of possible old logging camp in Sec 34 in the way of various pieces of metal.

Special Management Designations or Considerations:

This compartment is an SCA, no timber management is recommended in this YOE due to stand proximity to the Alvar. (no harvesting treatments are recommended this YOE.)

Watershed and Fisheries Considerations:

This compartment contains Grand Marais Lake, which may provide spawning habitat for smallmouth bass and northern pike, particularly when Great Lakes water levels are high. Fisheries information for this lake is limited. Fisheries has no comments at this time.

Wildlife Habitat Considerations:

Compartment 2 is part of the Maxton Plains Management Area, and featured wildlife species include black bear, sharp-tailed grouse, and upland sandpiper. Alvar communities are an important feature in this compartment. Alvar supports several rare plant species such as Alaska orchid, false pennyroyal, Hill's thistle, Calypso orchid, prairie smoke, beauty sedge, and flattened spike-rush. Threats to alvar include off-road vehicle use and invasive species. Recommendations from the Drummond Island Writing Team and the Drummond Island Comprehensive Resource Management Plan both address protection of the alvar and limiting vehicular access in these areas to existing roads. Management in this compartment will primarily involve maintenance of the alvar, which may include invasive species monitoring and control efforts. These efforts will benefit all of the featured wildlife species as well as many others. Forested stands contain mixes

of aspen, cedar, and other species, and are typical of many stands on the island. The mix of deciduous and coniferous species provides food and cover resources for snowshoe hare, black bear, deer, ruffed grouse, and other wildlife. These stands will be left to undergo natural processes. Wetlands and shoreline areas will be left to maintain habitat for bitterns, turtles, and a variety of other species. All activities should be consistent with the management plan for the island.

Mineral Resource and Development Concerns and/or Restrictions

Sand/gravel pits are not located in this area and potential is unknown. There is active dolomite production on the southern portion of the island, but the equivalent formations are likely too deeply buried here to have significant economic value. There is no current economic oil and gas production in the UP and there is no known metallic mineral potential in this region.

Vehicle Access:

Bruce Point Rd. bisects the compartment. A few old existing two tracks extend into the interior through the grassy openings but limited access into the compartment due to the sensitivity of the Maxton Plains Alvar.

Survey Needs:

Recreational Facilities and Opportunities:

This area is important for wildlife viewing, hunting, and nature education of the Alvar habitat type. There is a placard at the junction of Maxton Plains Rd and Bruce Point Rd explaining the rarity and importance of the Maxton Plains Alvar. There are no legal snowmobile or ORV trails in this compartment.

Fire Protection:

Access is good to the west, south, and east, sides of the compartment but the interior would be difficult to access. Water sources would be sufficient but not too near. Some structure protection would be a concern on the south and west side. Light on the land tactics need to be considered for wild land fires on the Alvar to minimize damage and soil disturbance.

Additional Compartment Information:

The following reports from the Inventory are attached:

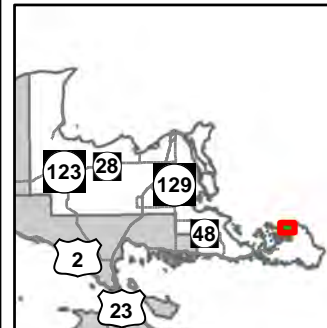
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

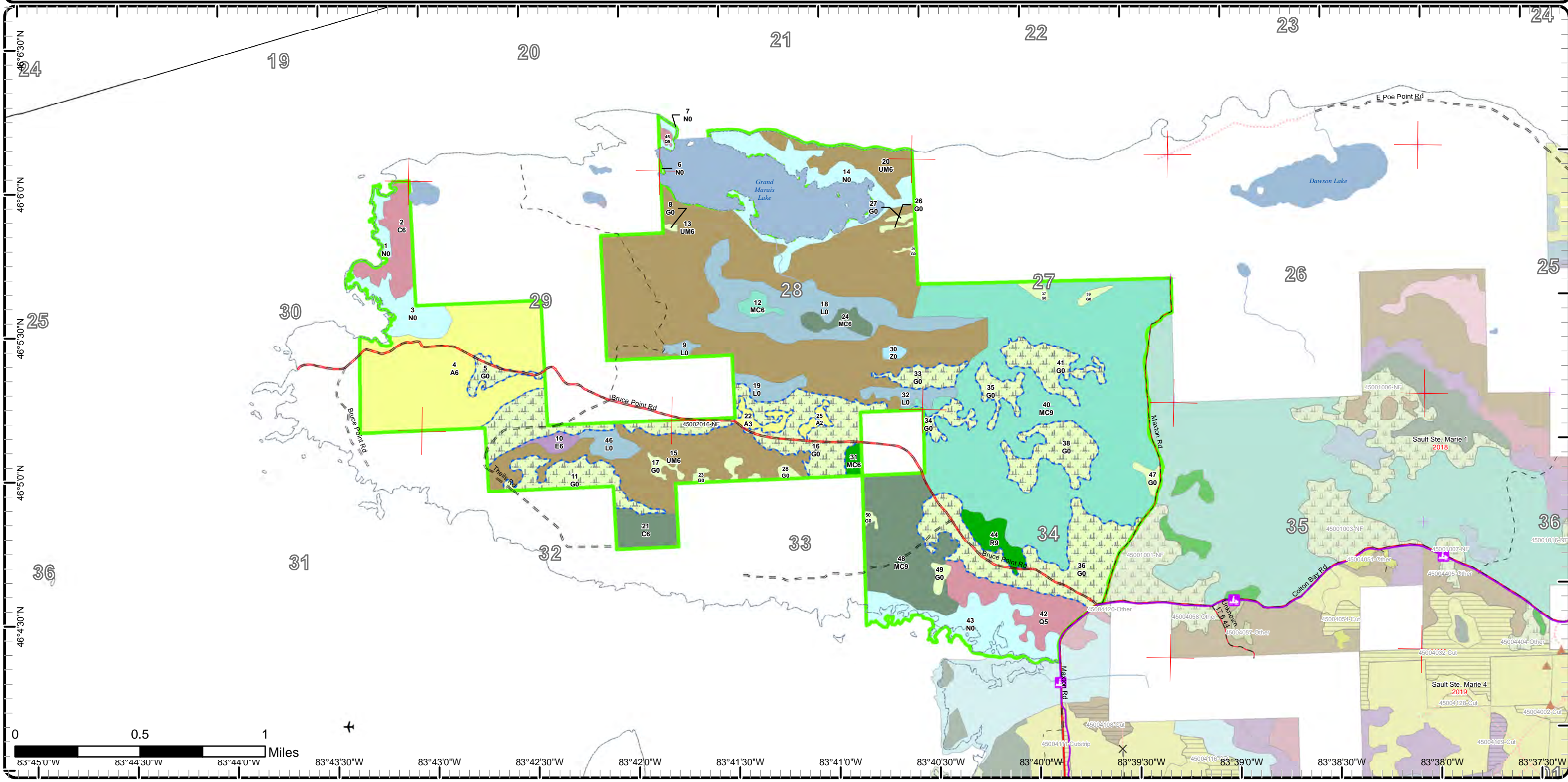
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

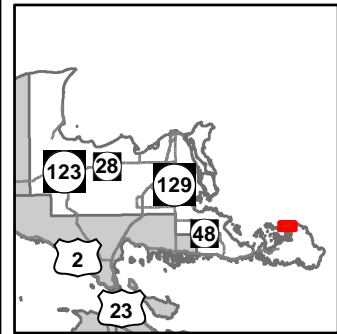
Compartment: 2
 T43N, R06E, Sec: 27-30, 32-34
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Maxton Plains
 YOE: 2019
 Acres: 2098.6 GIS Calculated
 Examiner: Jeff Wise
 Map Revised: 8/11/2017
 Map Phase: Review



- Miris Corners
- + Remonumented Section Corners
- Counties
- X Gate
- ✈ Airport
- Snowmobile Trails
- Designated Snowmobile Trails
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- Streams
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- State Boundary
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- 413 - Aspen Types
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

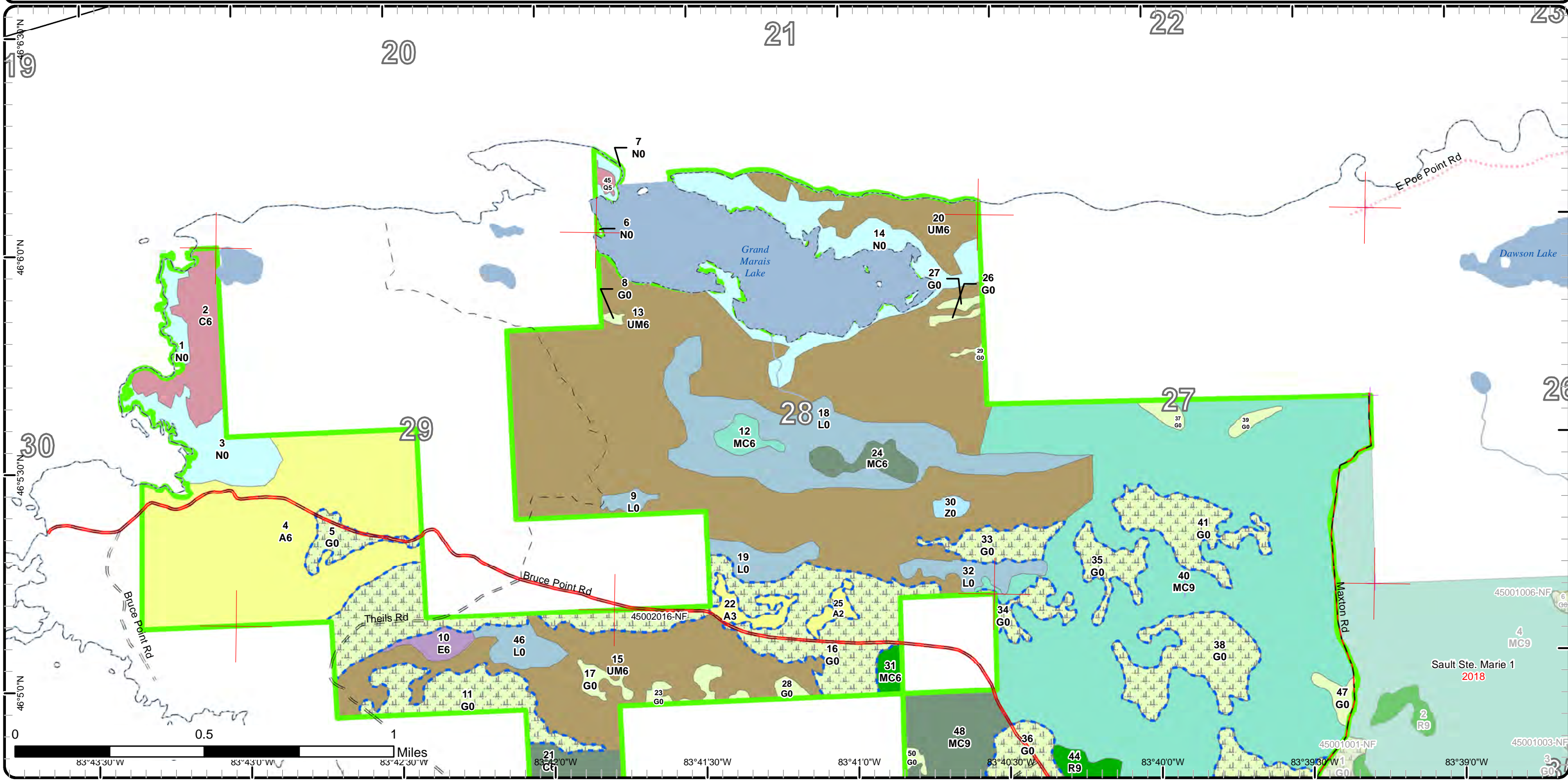


Cover Type & Treatments Map



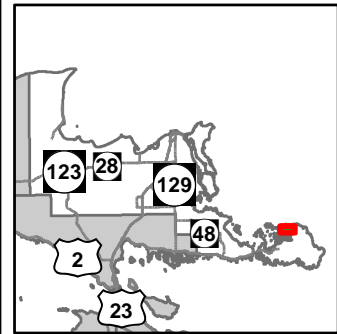
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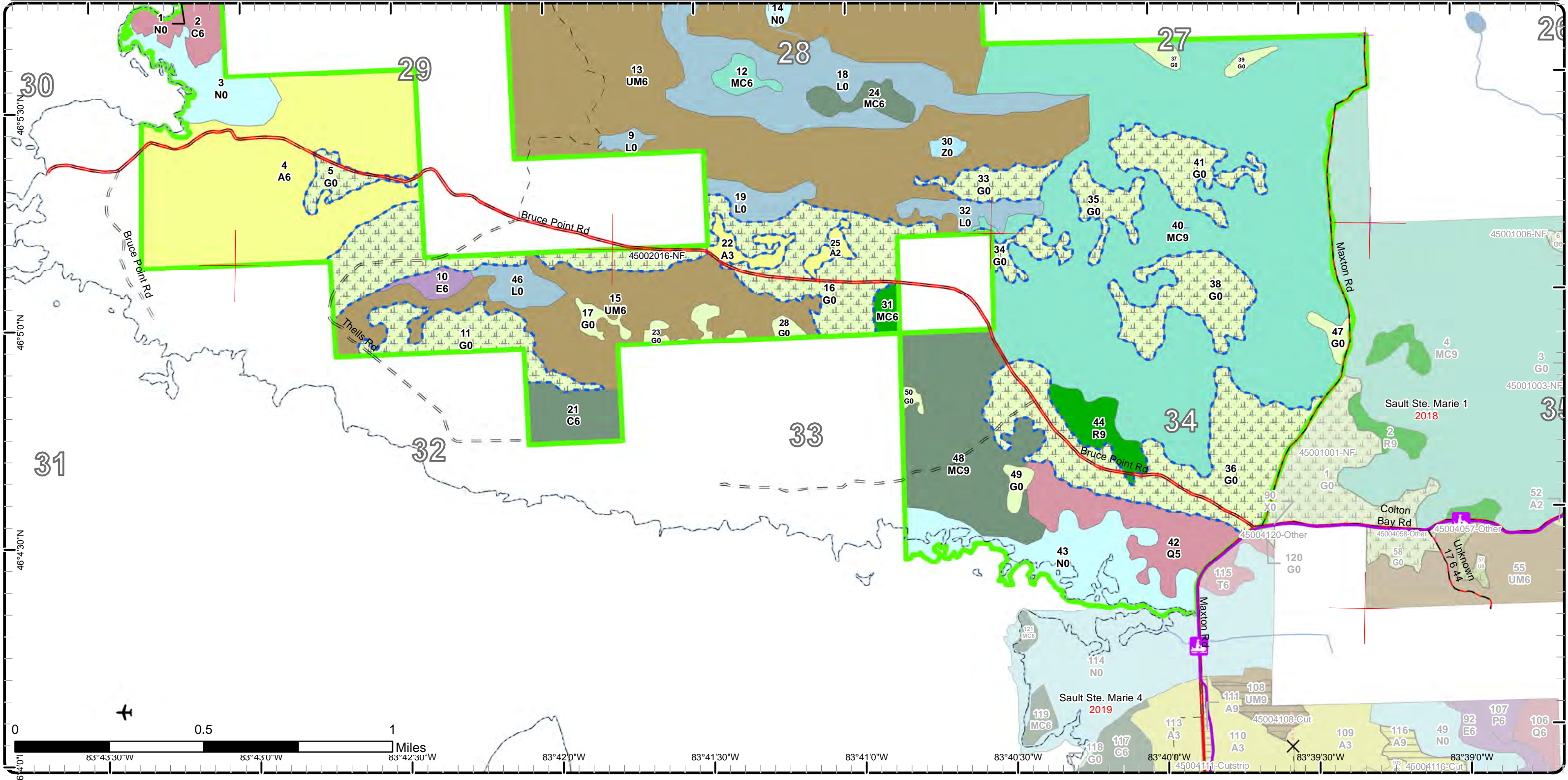


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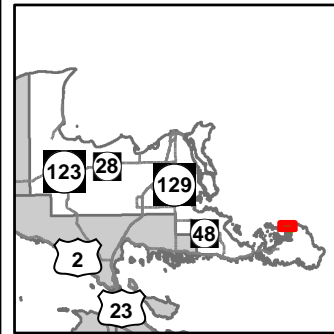


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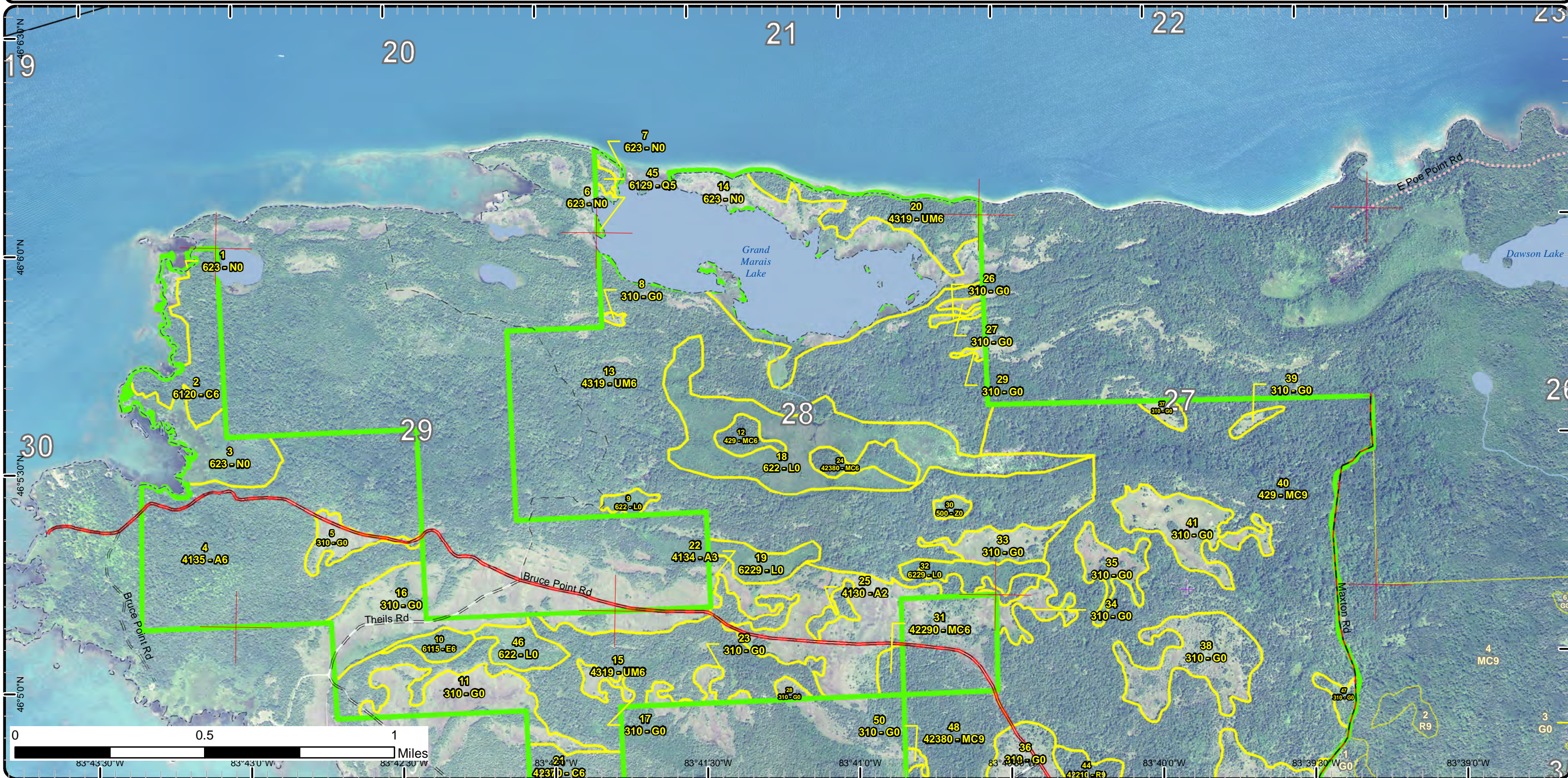


Stand Boundary Map

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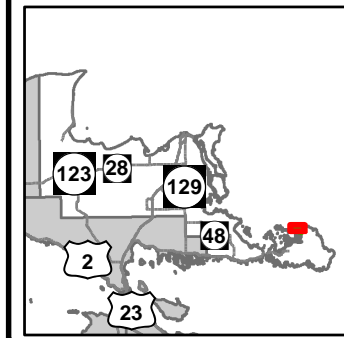


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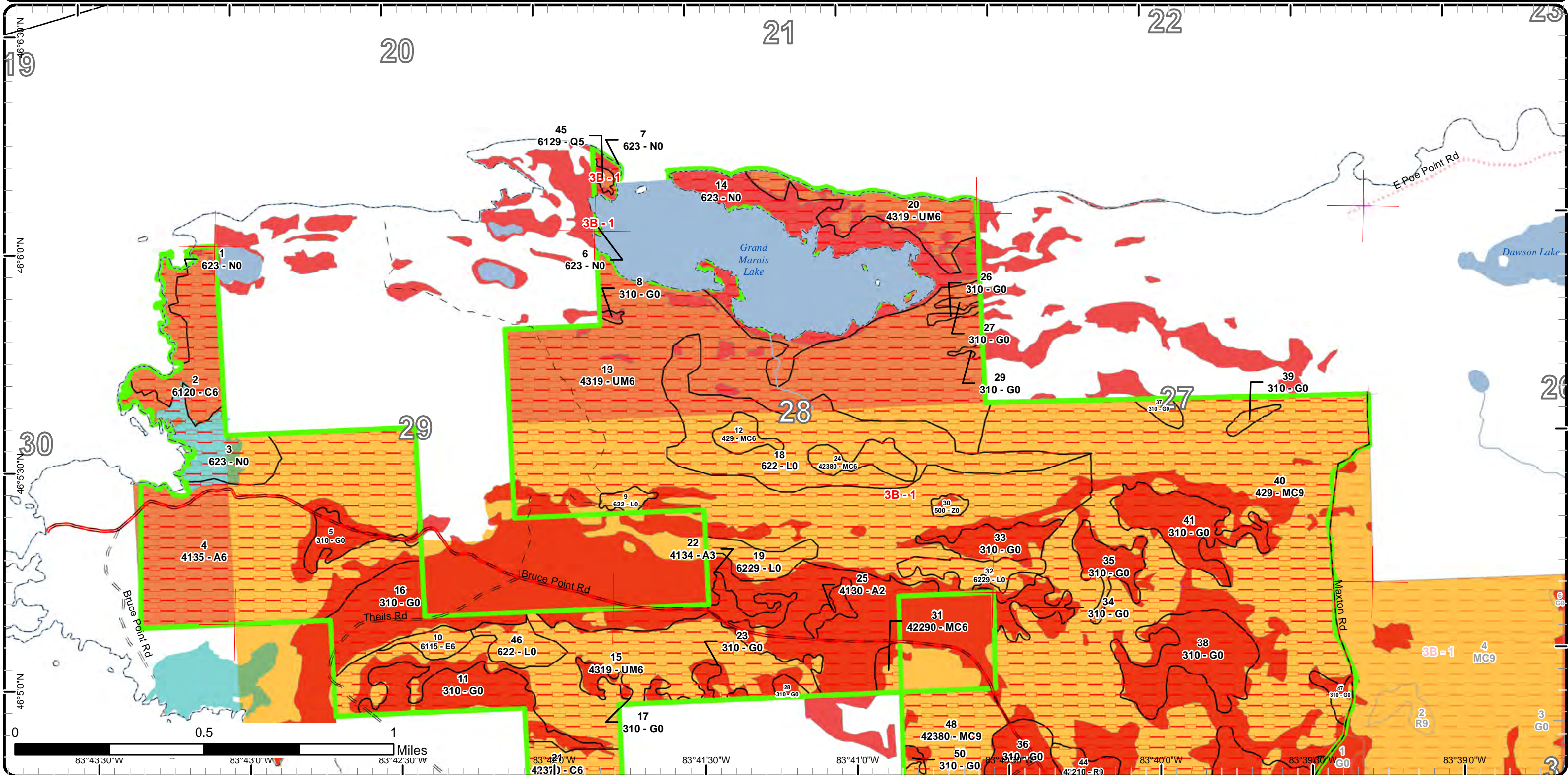


Special Conservation Areas & Site Conditions Map

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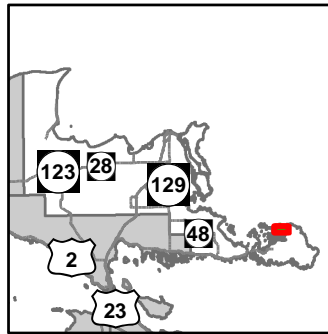


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- Coastal Environmental Areas
- Non-Dedicated Natural Areas and National Natural Landmarks
- Other Habitat Area

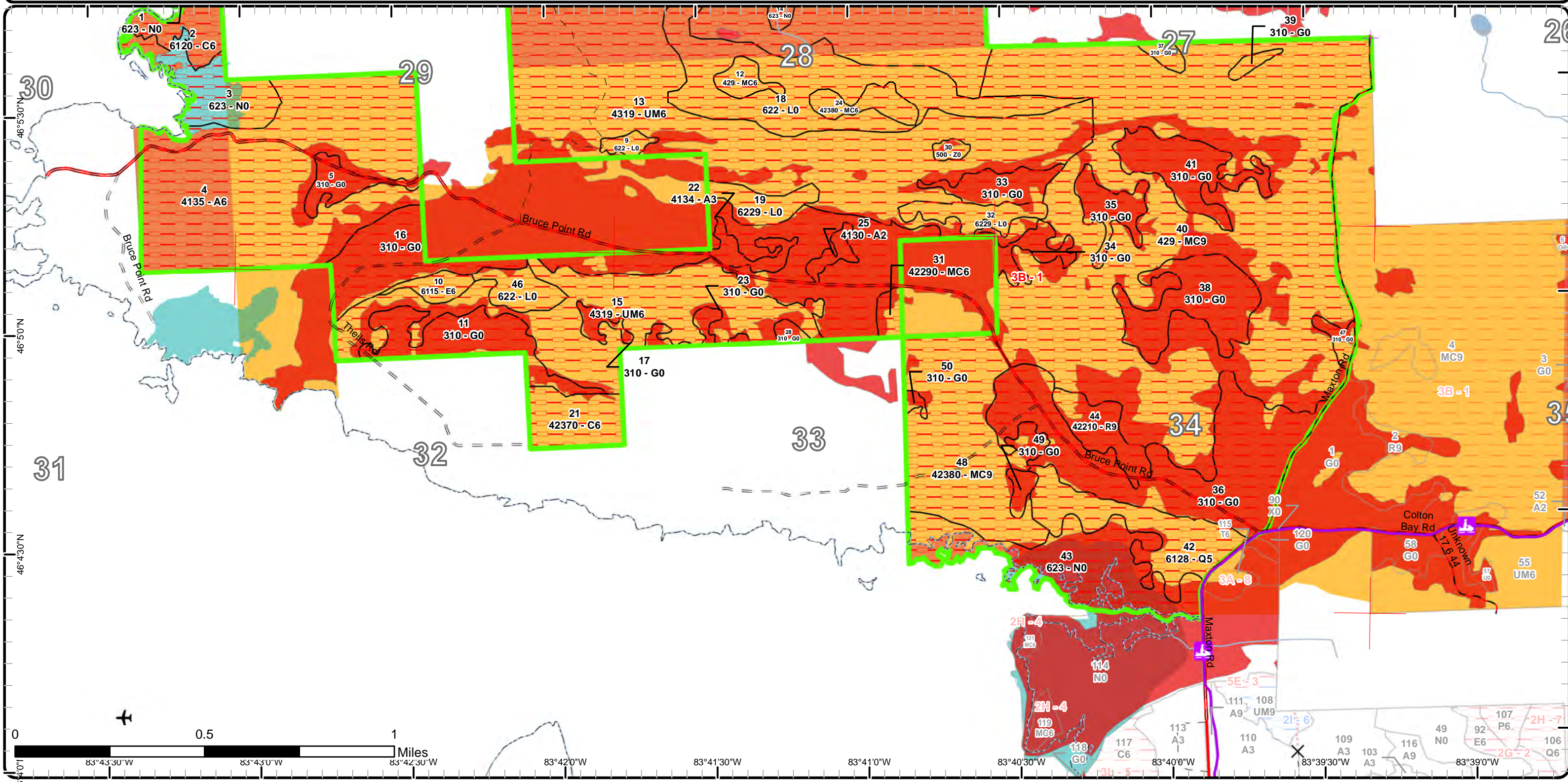


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Report 1 – Total Acres by Cover Type and Age Class



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	0	5	0	0	0	0	0	0	0	0	0	0	0	0	188	193
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56	56
Herbaceous Openland	397	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	397
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	42	44
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Lowland Shrub	128	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	128
Marsh	175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	175
Natural Mixed Pines	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17
Upland Conifers	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	11	0	522	540
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0	499	533
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	703	0	0	0	5	0	0	5	0	0	48	0	0	0	0	11	2	1324	2098



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 2
Total Compartment Acres: 2,099

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	0	0	0	362	362
Total	0	0	0	0	0	0	0	0	362	362



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
16 45002016-NF	362.1	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: No **Site Condition:** Species of special concern or T&E

Prescription Remove invasive species using chemicals, burning, and/or hand pulling as funding permits. Monitor periodically with drive through surveys.

Specs: Treatments may extend into adjacent Comps 2 and 4. for invasive species removal.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

Total Treatment Acreage Proposed: 362.1

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

3B

193	0	0	193	Aspen	193
56	0	0	56	Cedar	56
397	0	0	397	Herbaceous Openland	397
44	0	0	44	Lowland Conifers	44
7	0	0	7	Lowland Deciduous	7
128	0	0	128	Lowland Shrub	128
175	0	0	175	Marsh	175
5	0	0	5	Natural Mixed Pines	5
17	0	0	17	Red Pine	17
540	0	0	540	Upland Conifers	540
533	0	0	533	Upland Mixed Forest	533
3	0	0	3	Water	3
2,099	0		2,099	Total Forested Acres	2,099
	0%		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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		3B: Threatened, endangered, and special concern species	2,099	Unspecified	Unspecified	Unspecified	Unspecified
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	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.
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	Coastal Environmental Areas	The public designation process is defined by Part 323, Shorelands Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). This is an inactive program with no new areas currently under consideration by the DEQ.
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.

Report 7 – Forested Stands

Compartment: 2
Year of Entry: 2019



Stand	Sault Ste. Marie Mgt. Unit		Report 7 – Forested Stands			Compartment: 2 Year of Entry: 2019
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	6120 - Lowland Cedar	Poletimber Well	33.1	121	51-80	
4	4135 - Aspen, Cedar	Poletimber Well	179.8	110	81-110	Typical Drummond aspen/cedar mix, good line on west side, trespass a few years ago by landowners on north west side. For future stand examiners, property line goes up the driveway. Property pin is on the right as you enter drive.
10	6115 - Lowland Ash	Poletimber Well	7.0	94	1-50	Wet, standing water, much of the stand looks dead.
12	429 - Mixed Upland Conifers	Poletimber Well	6.9	91	81-110	
13	4319 - Mixed Upland Forest	Poletimber Well	392.1	91	81-110	Typical Drummond aspen/cedar mix, very large stand comprising most of the northern part of the comp. Scattered white birch, balm, and white pine. (illegal?)ORV trails to Grand Marais Lake.
15	4319 - Mixed Upland Forest	Poletimber Well	106.7	94	81-110	Typical Drummond aspen/cedar mix, older stand with regen pockets.
20	4319 - Mixed Upland Forest	Poletimber Well	34.3	94	51-80	Stand is north of Grand Marais Lake along the Great Lakes shoreline, ERA.
21	42370 - Upland Cedar, Aspen	Poletimber Well	23.2	154	51-80	Old cedar stand, but small dbh, must have been suppressed, thick balsam sub canopy
22	4134 - Aspen, Spruce/Fir	Sapling Well	8.3	35	1-50	Young stand in grassy opening, same as 25
24	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	11.0	145	51-80	
25	4130 - Aspen	Sapling Medium	4.7	35	1-50	Young aspen stand in large grass opening.
31	42290 - Natural Mixed Pine	Poletimber Well	5.2	60	1-50	new stand , the only stand with measurable white pine
40	429 - Mixed Upland Conifers	Sawtimber Well	431.6	145	81-110	Typical Drummond aspen/cedar mix, drainage w/water within stand, younger timber on fringes of stand and grass openings, scattered minor species, one of the larger stands comprising most of the north eastern part of the comp.
42	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	42.0	109	Unspecified	Younger timber on fringes of stand and openings, odd mix of upland and lowland species, terrain is variable.
44	42210 - Natural Red Pine	Sawtimber Well	17.2	145	51-80	The only red pine stand in comp, unique.
45	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	1.9	165	51-80	No access, small stand on nw side of Grand Marais Lake,

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Sault Ste. Marie Mgt. Unit

Report 7 – Forested Stands

Compartment: 2
Year of Entry: 2019



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
48	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	90.8	145	81-110	Typical Drummond aspen/cedar mix, younger timber on the fringes.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	623 - Emergent Wetland	8.1	No	Great Lakes shoreline, marshy with scattered cedar and spruce trees. ERA
3	623 - Emergent Wetland	30.0	No	Great Lakes shoreline, ERA
5	310 - Herbaceous Openland	10.6	No	
6	623 - Emergent Wetland	0.5	No	Isolated island stand in the marsh
7	623 - Emergent Wetland	3.2	No	Great Lakes shoreline, ERA.
8	310 - Herbaceous Openland	0.9	No	
9	622 - Lowland Shrub	4.0	No	
11	310 - Herbaceous Openland	33.4	No	Alvar
14	623 - Emergent Wetland	70.2	No	Marsh surrounding Grand Marais Lake, with Great Lakes shoreline, ERA.
16	310 - Herbaceous Openland	114.2	No	Alvar, pvt to the north is Nature Conservancy.
17	310 - Herbaceous Openland	4.2	No	Alvar
18	622 - Lowland Shrub	87.0	No	
19	6229 - Mixed lowland shrub	12.6	No	
23	310 - Herbaceous Openland	5.8	No	Alvar
26	310 - Herbaceous Openland	1.5	No	Alvar
27	310 - Herbaceous Openland	1.8	No	Alvar
28	310 - Herbaceous Openland	2.5	No	Alvar
29	310 - Herbaceous Openland	1.0	No	Alvar



Stand	Cover Type	Acres	Managed Site	General Comments:
30	500 - Water	2.9	No	Pond in stand 13, probably dry most of the year.
32	6229 - Mixed lowland shrub	12.7	No	
33	310 - Herbaceous Openland	14.5	No	Alvar
34	310 - Herbaceous Openland	9.8	No	Alvar, Illegal ORV trails
35	310 - Herbaceous Openland	13.6	No	Alvar
36	310 - Herbaceous Openland	99.5	No	Alvar, main large opening of the comp. Bruce Point Road is a County Road.
37	310 - Herbaceous Openland	3.7	No	Alvar
38	310 - Herbaceous Openland	37.8	No	Alvar, with scattered mixed low density trees.
39	310 - Herbaceous Openland	2.9	No	Alvar
41	310 - Herbaceous Openland	28.7	No	Alvar
43	623 - Emergent Wetland	62.8	No	Marsh along Great Lakes shoreline.
46	622 - Lowland Shrub	12.0	No	
47	310 - Herbaceous Openland	4.8	No	Alvar, mix with herbaceous and low density trees.
49	310 - Herbaceous Openland	4.0	No	
50	310 - Herbaceous Openland	1.7	No	