



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45021

Entry Year 2019

Acreage: 2,228

County Chippewa

Management Area: Gogomain

Revision Date: 2017-07-31

Stand Examiner: Jeff Wise

Legal Description:

T43N R3E, Sec 9, 10, 11, 14, 15, 16, 20, 21, 29 T42N R3E Sec 4, 5, 10

Identified Planning Goals:

Management has occurred within the compartment in the past but is minimal. The compartment contains a large amount of cedar, lowland conifer, and E types. The hardwood types within the compartment were good quality but had a low basal area and will be managed in the future. Aspen types within the northernmost part of the compartment 43N-3E, have been managed in the past and are doing well. The E type areas were discussed due to the large amount of green and black ash present within them. A decision was made to not manage these stands at the present time due to the markets, wet soils, and uniqueness.

Soil and topography:

The north part of the compartment is Kalkaska-Au Gres-Kinross association: Very deep, nearly level to very steep excessively drained to poorly drained, sandy and mucky soils on outwash plains, lake plains and ground moraines. The shoreline soils are Ermatinger-Wega-Burleigh association: Very deep, nearly level, poorly drained, loamy and sandy soils on lake plains, and former flood plains of glacial rivers. Inland and west soils are: Markey-Dawson association make up soils around the flooding: Very deep, nearly level, very poorly drained, mucky and peaty soils on outwash plains, lake plains, and ground moraines.

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

This compartment is in two blocks with the southern most block (Sections 4, 5, & 10) having no public or management access. Private holdings are in active management and may provide access with permission. There are rumors about possible gravel and limestone development on private land in Section 4. The north block is surrounded by private land except for the shoreline along the St. Mary's River. Paved road access is fairly good to the north block. Land use includes hunting, residential areas, and water front resorts. A large parcel of deer yard was purchased last YOE in Sections 20 & 21. A road exists within Section 21. This road was constructed by previous owners and is causing problems. The road contains only a couple of culverts which are mostly plugged and ineffective. Water is backed up along the west side of the road and has flooded out a strip of timber. Heavy ORV use is also a problem on this road. Proposed treatment of this area includes breaching the road in numerous spots to allow proper water flow. This treatment will also discourage illegal ORV activity.

Unique Natural Features:

Section 4 and 5 contain an area known as the Raber Fossil Area. There is approximately two miles of St Mary's River shoreline. MNFI has been consulted and comments received regarding potential and documented T & E species. Bender Lake within Section 5 of 42N-3E contains many different wetland species around it (i.e. pitcher plants).

Archeological, Historical, and Cultural Features:

There are four recorded sites within this compartment. One in Stand 50, prescribed for harvest, will need to be properly buffered.

Special Management Designations or Considerations:

Deer yard areas, shorelines, and Raber Fossil Area coded as SCA.

Watershed and Fisheries Considerations:

This compartment contains Point Aux Frenes, shoreline of Raber Bay of the St. Marys River, Lime Island. This shoreline contains important coastal marshes. These marshes, contiguous with the St. Marys River, may provide important spawning and nursery habitat to a variety of species, particularly during high water levels. These coastal zones should be protected.

Wildlife Habitat Considerations:

This compartment is part of the Gogomain Management Area, and featured wildlife species include black bear, snowshoe

hare, and white-tailed deer. Lowland cedar and deciduous stands dominate. The compartment is part of deer wintering complex, and cedar and other lowland conifers provide cover for wintering deer. Treatments in deciduous stands should take place during the winter months to provide browse for wintering deer. Shoreline areas will be protected to maintain habitat for waterfowl and other wetland wildlife.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located in Section 17. The majority of the compartment consists of lowlands and wetlands, which could limit sand and gravel potential. 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:

Good access to the north block on Clay Road and Mike's Landing Road. The south block has no legal access, but a private road extends into Section 4.

Survey Needs:

Recreational Facilities and Opportunities:

No recreation trails exist in this compartment. Hunting is the primary recreation but opportunities exist for dispersed recreation such as camping, hiking, bird and nature watching.

Fire Protection:

Current access is sufficient for fire suppression, even though the south block has no legal access. In a wildfire situation, most land owners would grant access for equipment. Water sources are fairly close at Raber public landing on the St. Mary's River for filling engines.

Additional Compartment Information:

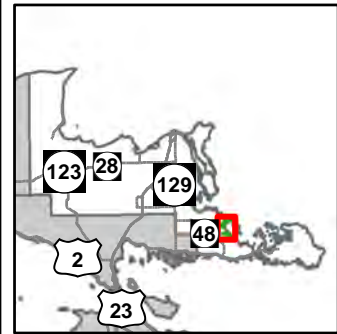
The following reports from the Inventory are attached:

- 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:

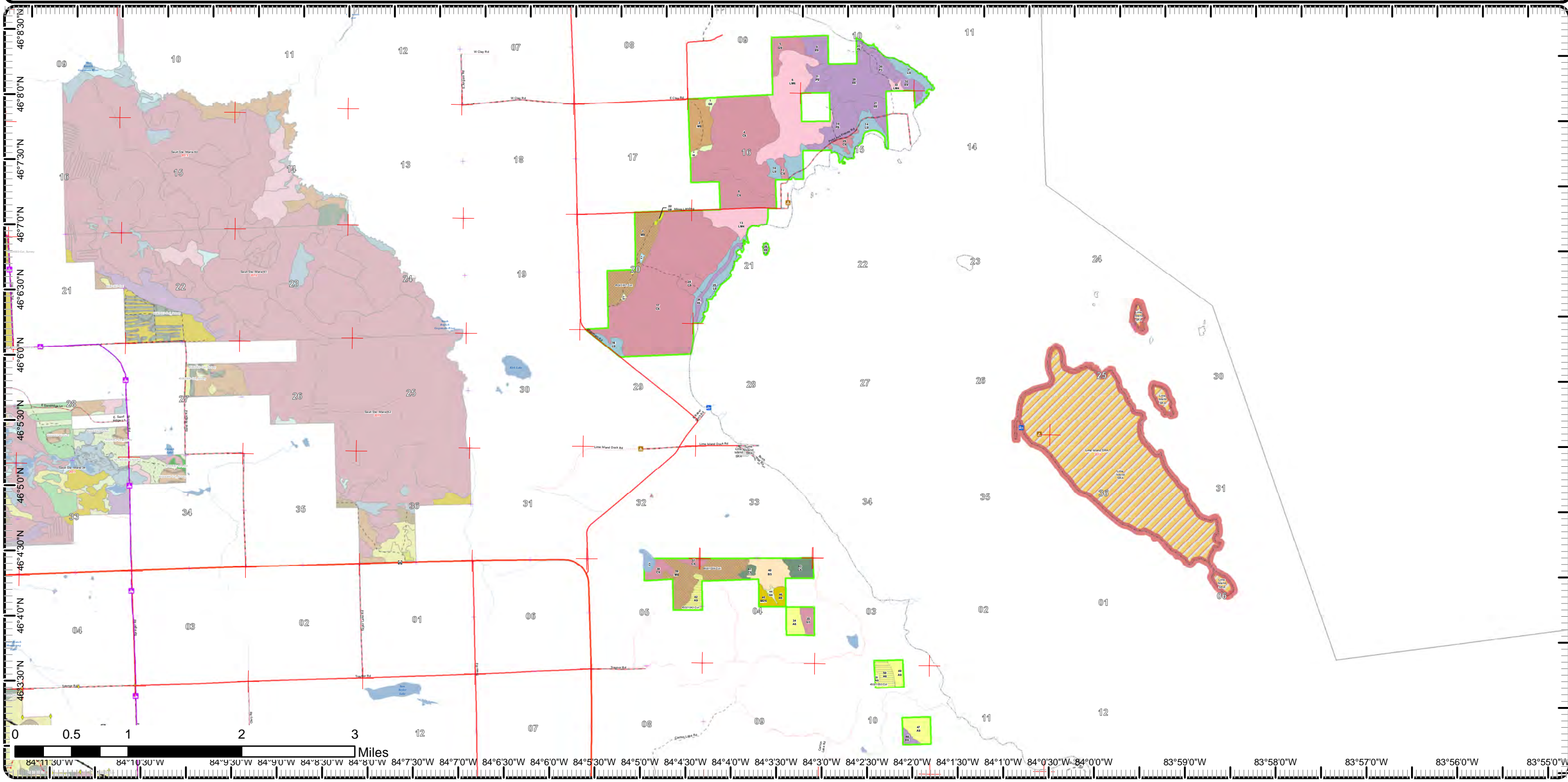
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

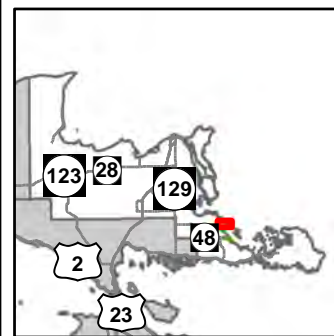


Compartment: 21
 T43N, R03E, Sec: 9-11, 14-16, 20, 21
 T42N, R03E, Sec: 4, 5, 10
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Gogomain
 YOY: 2019
 Acres: 2227.9 GIS Calculated
 Examiner: Jeff Wise
 Map Revised: 8/11/2017
 Map Phase: Review

- Miris Corners
- + Remonumented Section Corners
- Counties
- ▲ Berms
- ⚓ Boating Access Site
- ▲ Campground
- Highway
- County Paved Roads
- County Gravel Roads
- Gravel Roads
- County Poor Dirt Roads
- - Poor Dirt Roads
- ⋯ Closed
- Streams
- Lakes and Rivers All
- State Boundary
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- Lakes

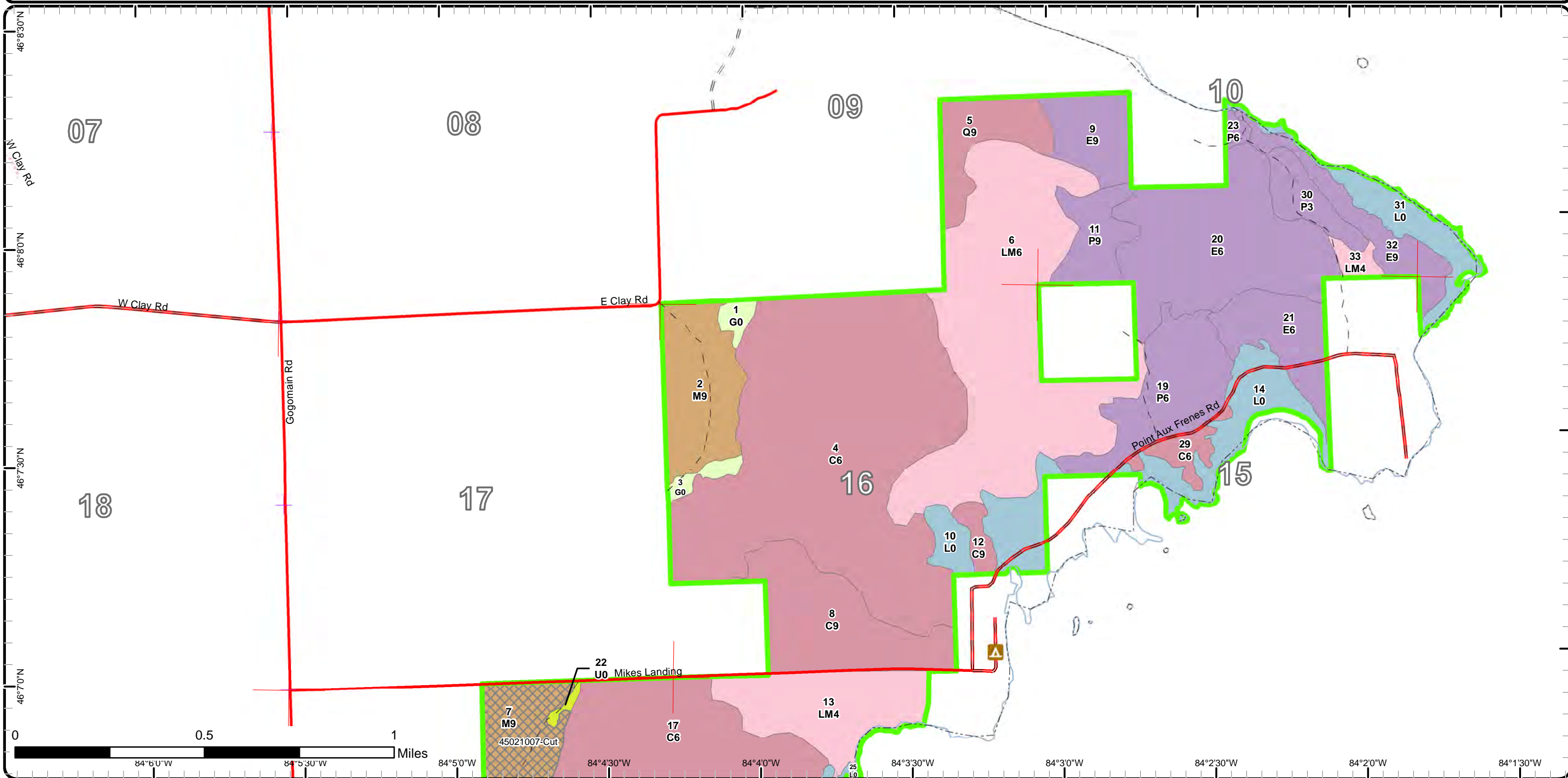


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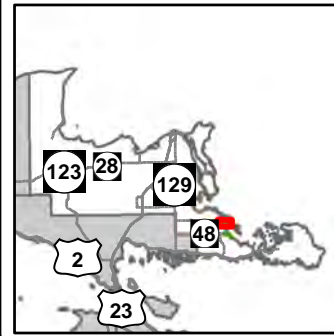


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- Counties
- ▲ Campground
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- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
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- Streams
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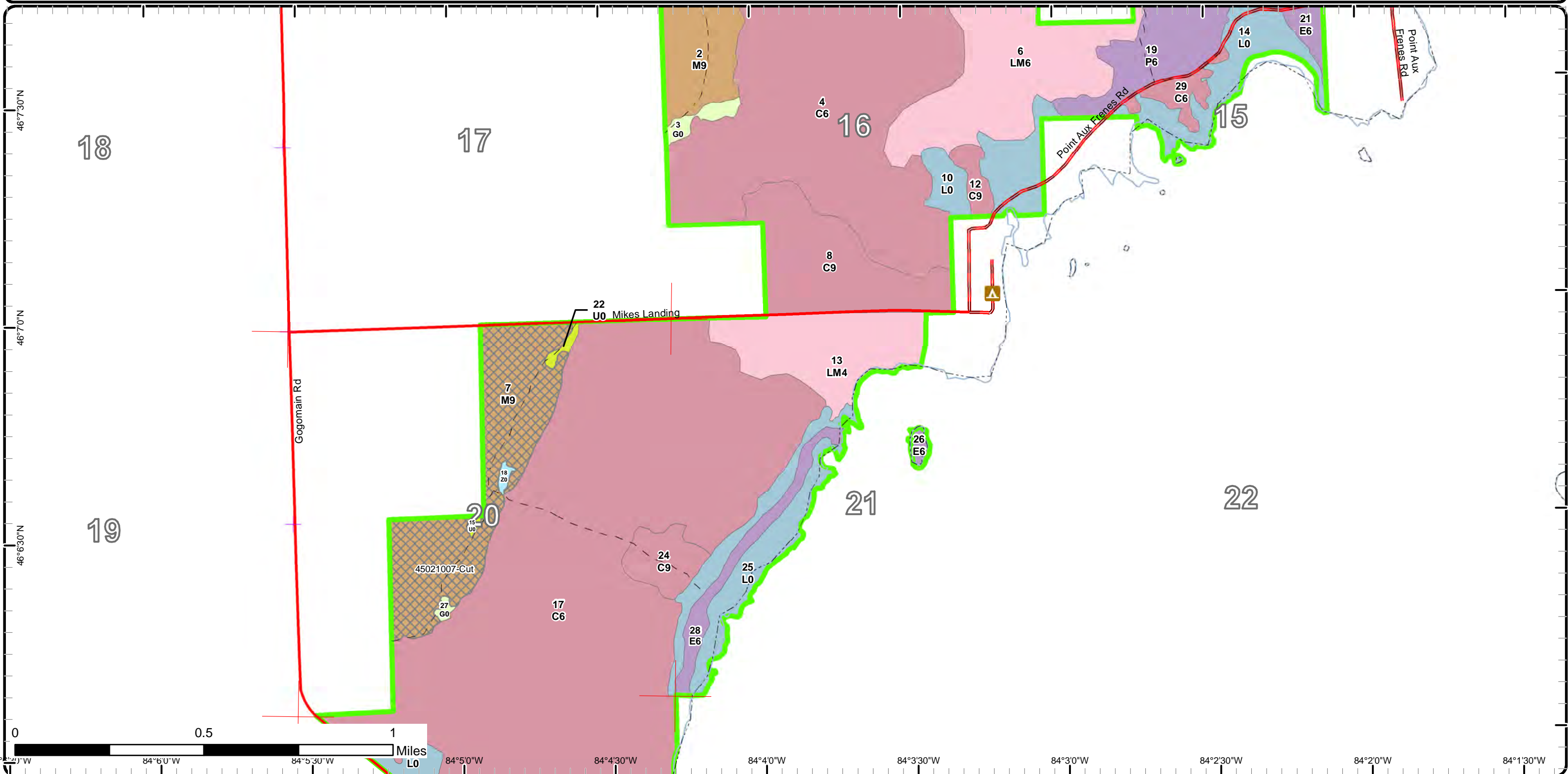


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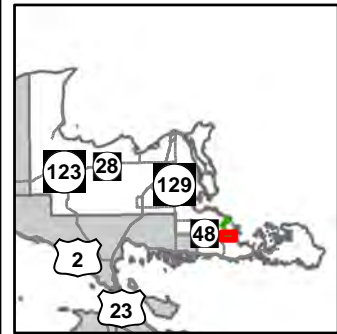


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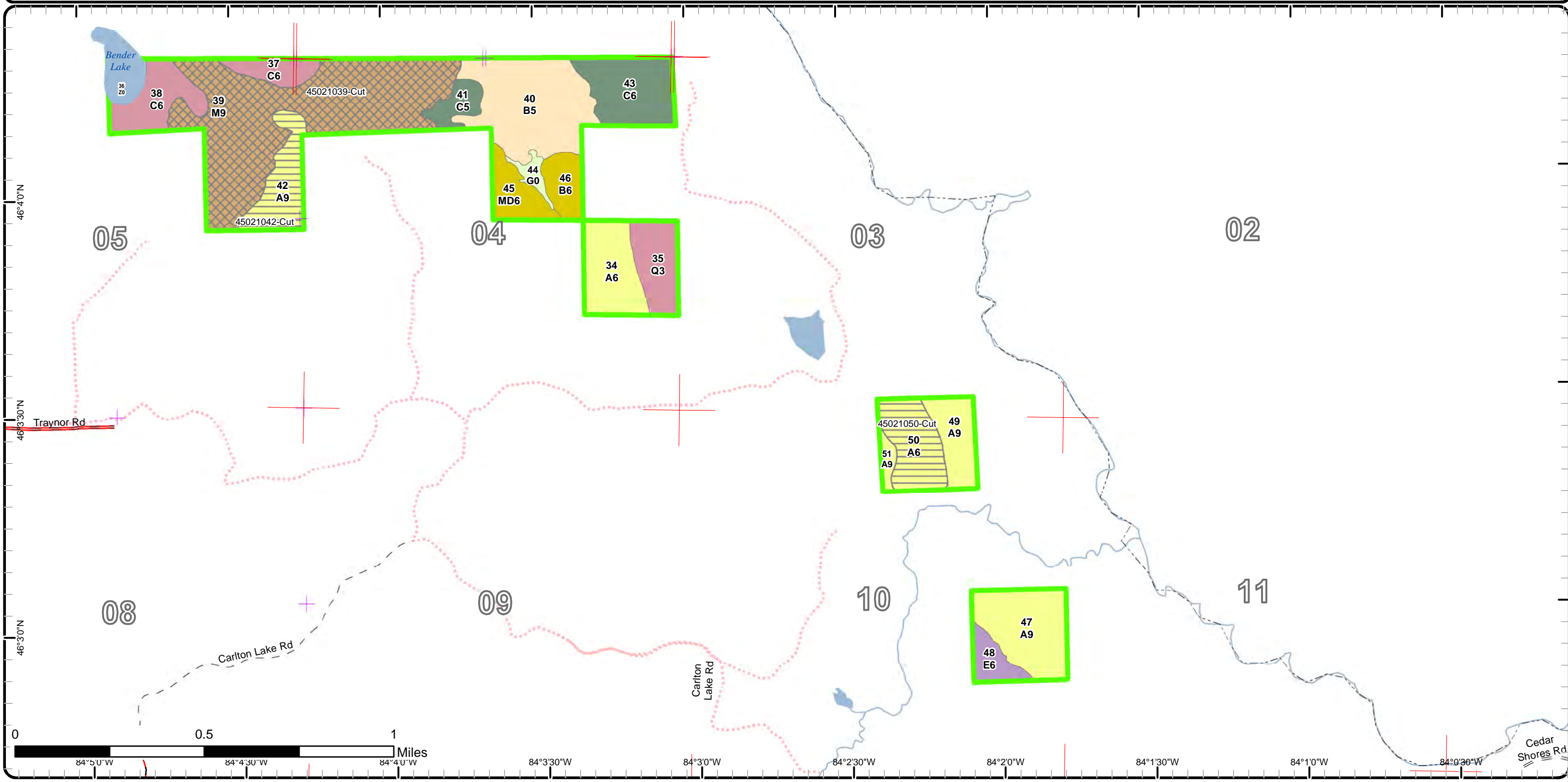


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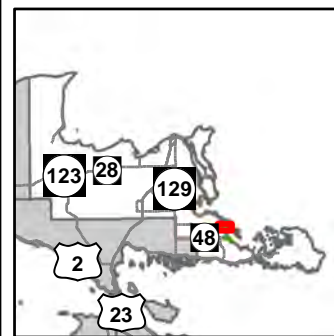


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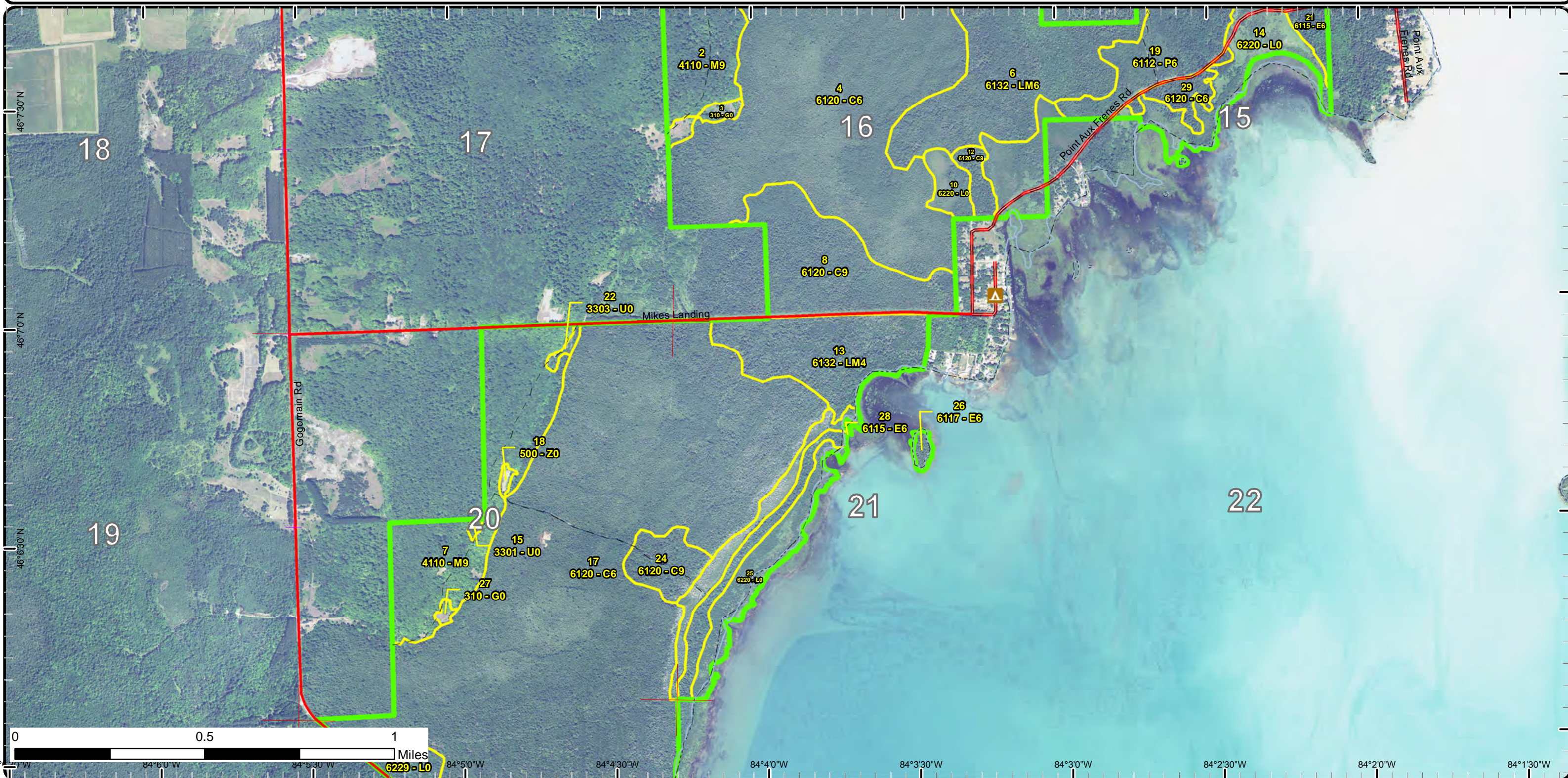


Stand Boundary Map

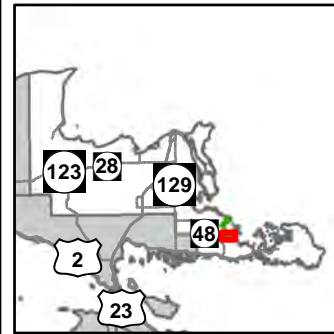


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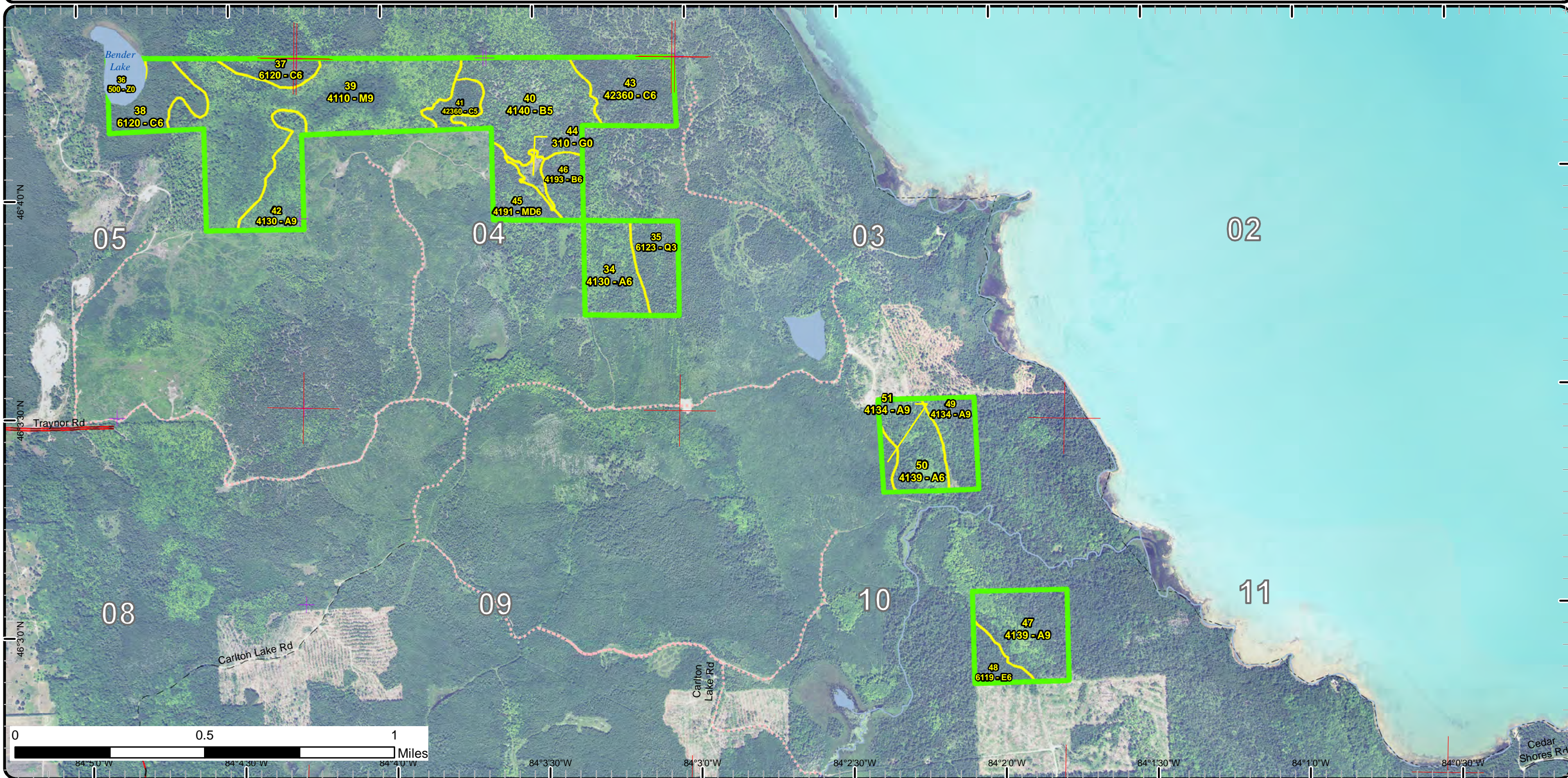


Stand Boundary Map



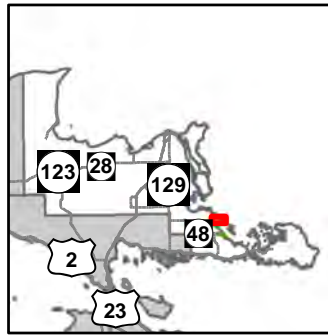
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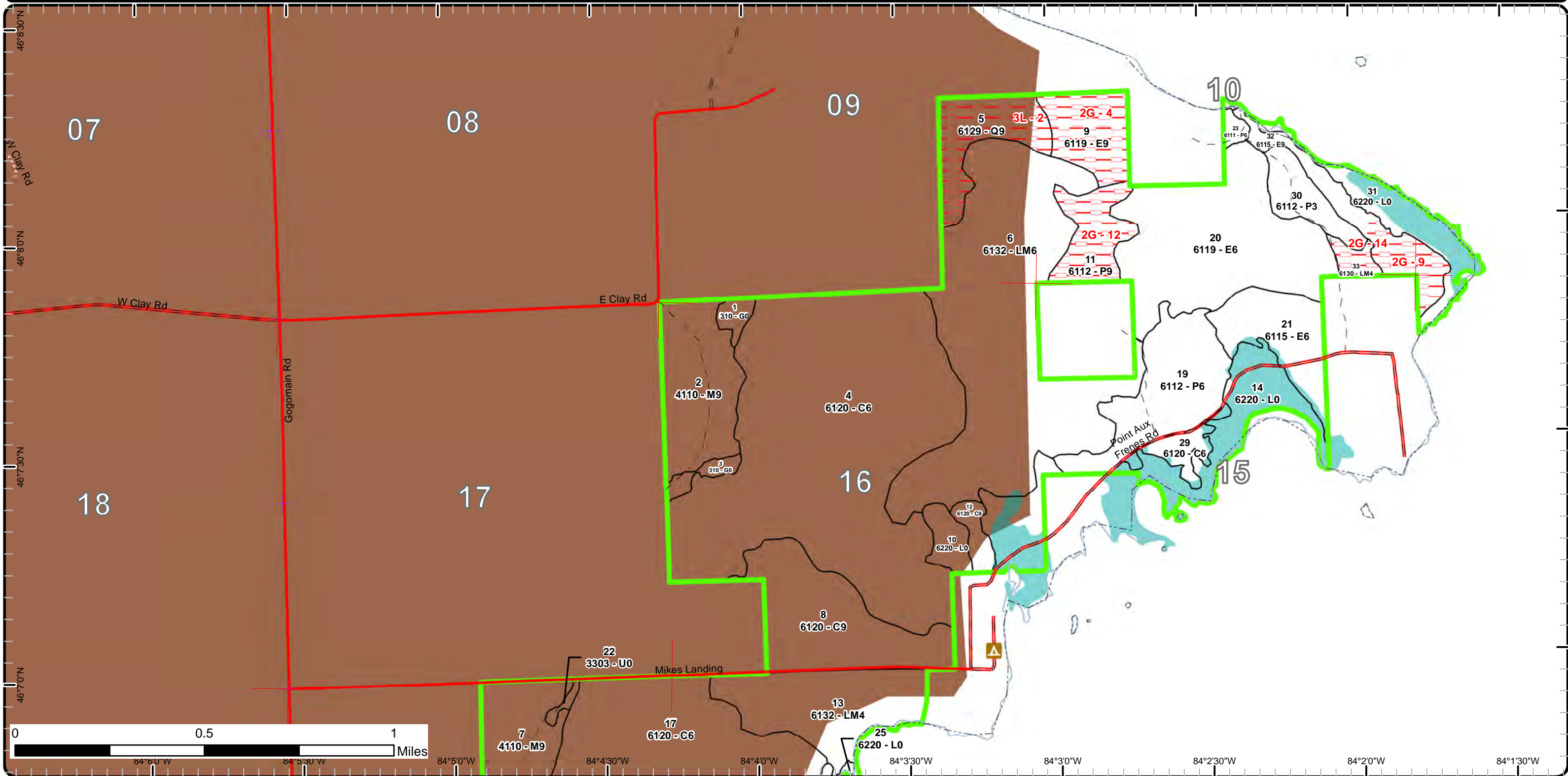


Special Conservation Areas & Site Conditions Map

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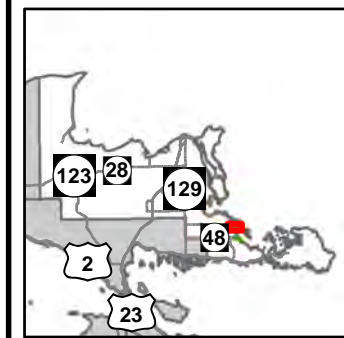


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- Streams
- State Boundary
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3L: Other wildlife concerns
- Stand Boundaries
- Coastal Environmental Areas
- Deer Winter Range

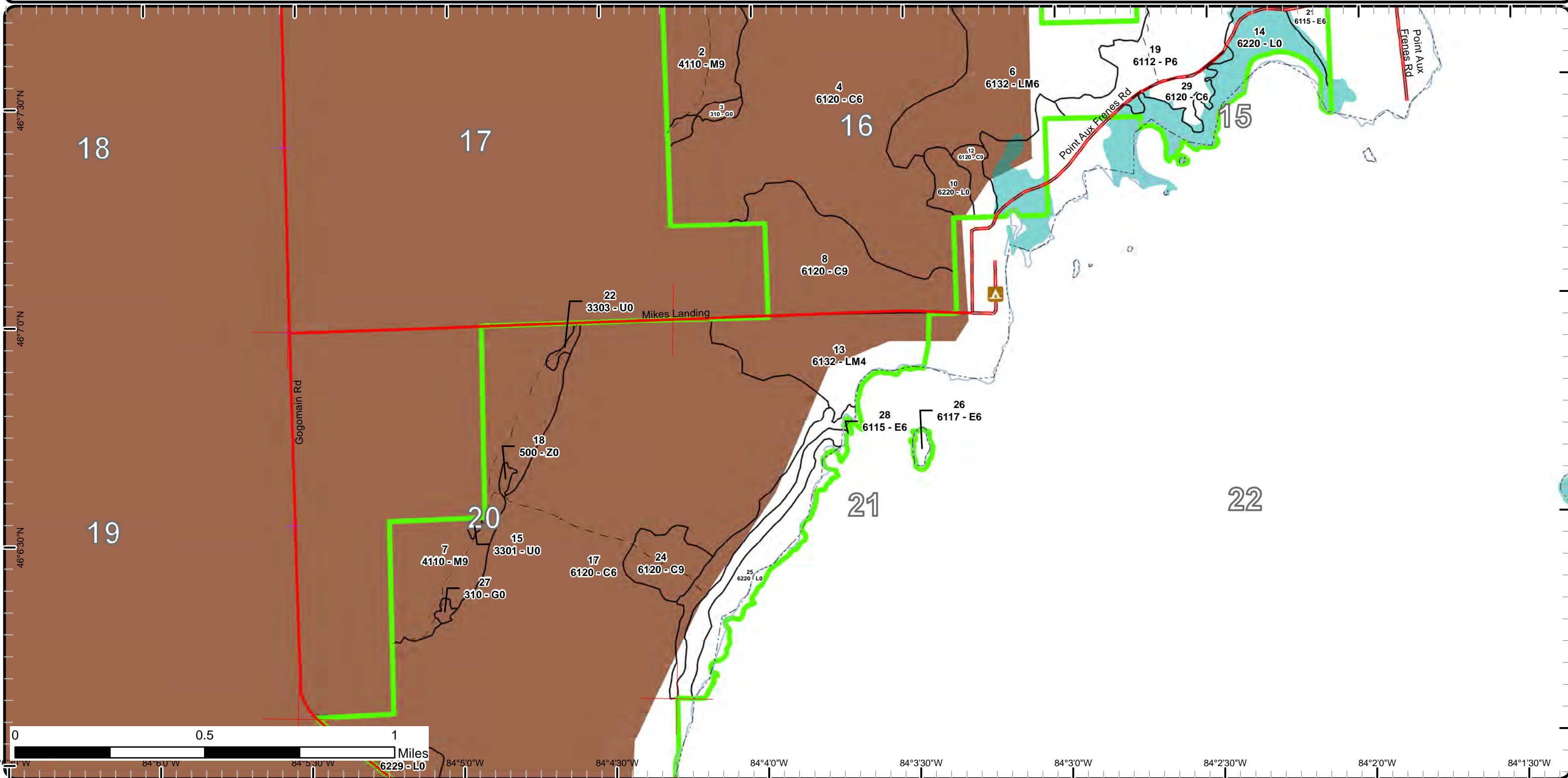


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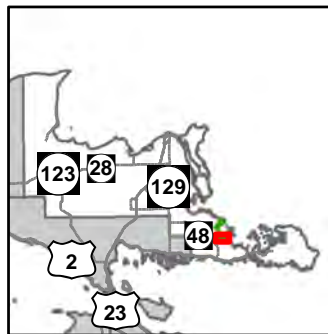


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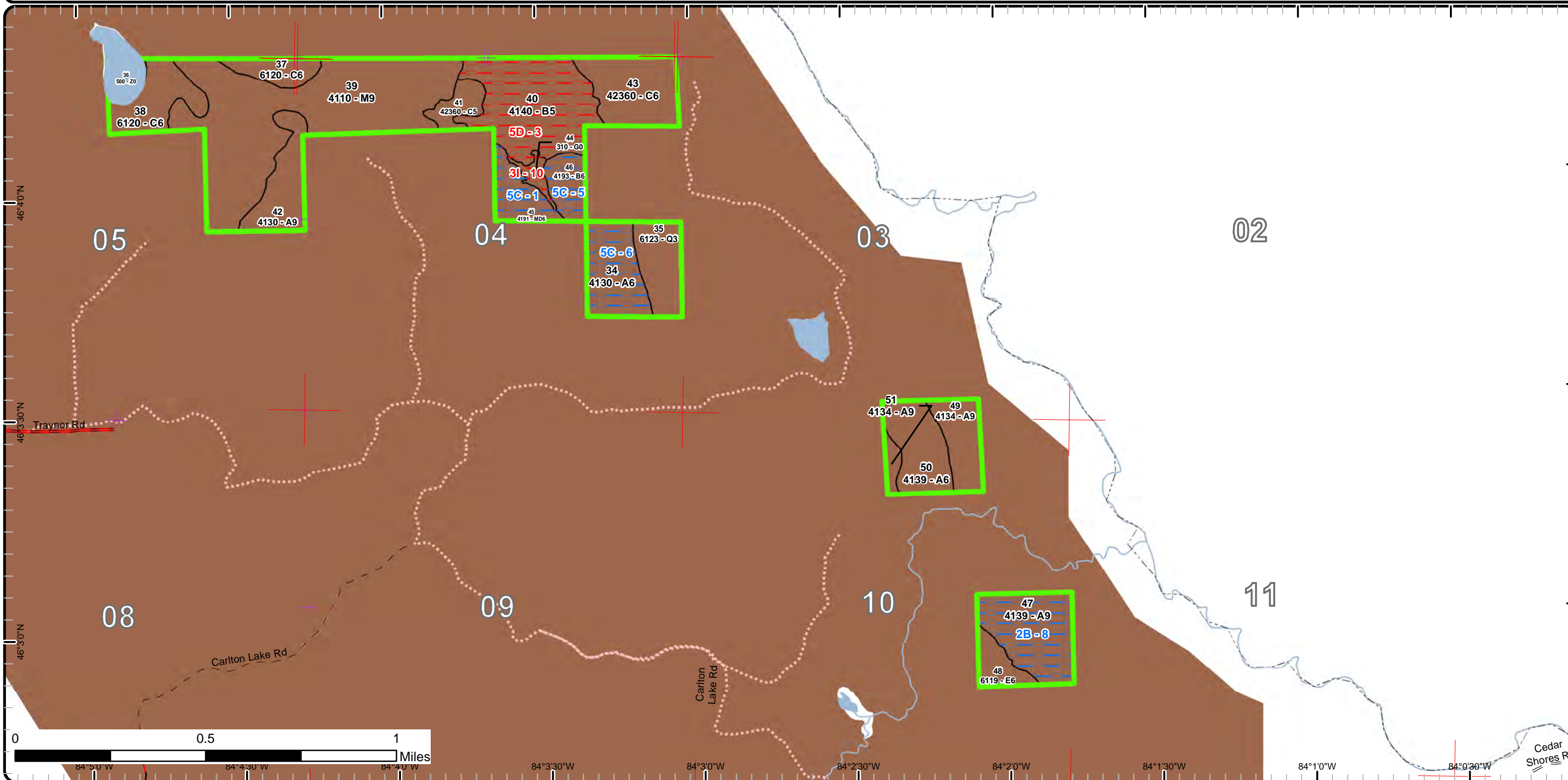


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- Streams
- Lakes and Rivers All
- State Boundary
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3I: Historical / archeological (add locked comments)
- 5D: Unproductive Forest Land
- Stand Boundaries
- 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	0	0	0	0	21	72	0	18	0	0	0	0	0	0	0	111
Cedar	0	0	0	0	0	0	0	0	18	8	548	96	294	0	0	0	0	0	964
Herbaceous Openland	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Aspen/Balsam Poplar	0	0	0	74	0	3	0	0	0	0	0	25	0	0	0	0	0	0	102
Lowland Conifers	0	0	0	0	17	0	0	0	0	0	0	32	0	0	0	0	0	0	49
Lowland Deciduous	0	0	0	0	8	0	36	0	128	29	0	0	0	0	0	0	0	29	229
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	6	0	0	256	0	0	0	0	0	262
Lowland Shrub	168	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	168
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12
Northern Hardwood	0	0	0	0	0	0	0	0	92	153	0	0	0	0	0	0	0	0	245
Paper Birch	0	0	0	0	0	0	0	0	0	48	10	0	0	0	0	0	0	0	58
Water	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	194	0	0	74	25	3	36	21	310	244	588	153	550	0	0	0	0	29	2226



Report 2 – Treatment Summary

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

Compartment 21
Total Compartment Acres: 2,228

Acres of Harvest

Commercial Harvest - 232
Harvests with Site Condition - 0
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
Aspen	40	0	0	0	0	0	0	0	0	40
Northern Hardwood	0	192	0	0	0	0	0	0	0	192
Total	40	192	0	0	0	0	0	0	0	232

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	232	0	0	0	0	0	0	0	0	232
Next Step	0	0	0	0	0	0	232	0	0	232
Total	232	0	0	0	0	0	232	0	0	463



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
7	45021007-Cut	91.8	4110 - Sugar Maple Association	Sawtimber Well	76	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Mark only individual maple trees to a basal area of 80. Winter cut (Dec1-March31), so tops are available as browse for wintering deer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple regen desired.

Regen:

Other Will need a survey to establish west side property lines

Comment:

Proposed Start Date: 10/01/2018

39	45021039-Cut	100.0	4110 - Sugar Maple Association	Sawtimber Well	85	81-110	Harvest	Group Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest all ash and fir, and some operational maple allowed for equipment. Leave at least 3 ash per acre where present for diversity to benefit

Specs: black bear and other species. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable present species

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

42	45021042-Cut	19.1	4130 - Aspen	Sawtimber Well	70	51-80	Harvest	Clearcut with Retention	413 - Aspen	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest all aspen and merchantable (6" dbh) maple and ash, leave all other species. Winter cut (Dec. 1 - Mar. 31) so tops are available as

Specs: browse for wintering deer.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

50	45021050-Cut	20.8	4139 - Aspen, Mixed Deciduous	Poletimber Well	66	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest aspen and maple only. No operations in the grass opening to the south east.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Present species acceptable.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 231.7**

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Jeff Wise : Examiner

Compartment: 21

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions							
		With Condition				2B	5C	2G	3I	3L	5D	
111	58	53		0	Aspen	30	23					
964	964	0		0	Cedar							
15	12	0		3	Herbaceous Openland				3			
3	3	0		0	Low-Density Trees							
101	77	0		25	Lowland Aspen/Balsam Poplar			25				
49	17	0		32	Lowland Conifers					32		
230	185	0		45	Lowland Deciduous			45				
262	257	0		6	Lowland Mixed Forest			6				
168	168	0		0	Lowland Shrub							
14	1	12		0	Mixed Upland Deciduous		12					
245	245	0		0	Northern Hardwood							
58	0	10		48	Paper Birch		10					48
8	8	0		0	Water							
2,229	1,994	76		160	Total Forested Acres	30	45	76	3	32		48
	89%	3%		7%	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	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3L: Other wildlife concerns	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Very unique Hemlock stand. Some areas contain nice hemlock regen. Cedar, red maple, and yellow birch are components of the stand as well.							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Jeff Wise : Examiner

Compartment: 21

Year of Entry: 2019

3	Unavailable	5D: Unproductive Forest Land	48	3K: Rare or unique landforms	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	23	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	2B: Unknown if access through adjacent landowner(s) is possible	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Jeff Wise : Examiner

Compartment: 21

Year of Entry: 2019

10	Unavailable	3I: Historical / archeological (add locked comments)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	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	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.
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.

Report 7 – Forested Stands

Compartment: 21
Year of Entry: 2019



Stand	Sault Ste. Marie Mgt. Unit		Report 7 – Forested Stands			Compartment: 21 Year of Entry: 2019
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	4110 - Sugar Maple Association	Sawtimber Well	53.0	82	51-80	Sale 45-015-14-01, Ash salvage was completed in 2016, Large diameter stand. Stand looks healthy with tight bark on the hardwood.
4	6120 - Lowland Cedar	Poletimber Well	285.3	119	51-80	Cedar is decent quality along the edges but then becomes more dense and is a smaller size class. The interior is more stagnant and wet.
5	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	32.3	105	Unspecified	Very unique stand. Hemlock are contiguous throughout the stand. Some areas contain very nice mix of hemlock and balsam regen. Cedar, red maple, and yellow birch are spread throughout as well. Code as unique site. Old Growth Hemlock
6	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	196.4	111	Unspecified	Stand contains pockets of each species. Some areas are 90 percent cedar, then a few chains later it's mostly ash. Found a few pockets of big hemlock and cedar within the stand.
7	4110 - Sugar Maple Association	Sawtimber Well	91.8	76	81-110	Stand contains poorer quality hardwood. Stand was thinned quite sometime ago as is noticeable with old stumps. Stand could use a light thinning but basal area is borderline. Let it stand for ten years.
8	6120 - Lowland Cedar	Sawtimber Well	69.3	109	81-110	Stand consists of a mix of cedar and tamarack, high density. Stand is in good condition. A couple of large aspen and birch exist within the stand but make up less than 2 % of the canopy.
9	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	28.9	85	51-80	Stand contains mostly large red maple and green ash. Ground is wet and low. A small pocket of Hemlock exists on the far East side of the stand (too small to delineate).
11	6112 - Lowland Aspen	Sawtimber Well	24.8	107	51-80	Alot of CWD on the ground. A windstorm went through (5 yrs ago?) and blew down most of the aspen. Some areas are regenerating back to aspen. Alot of snags present within the stand as well.
12	6120 - Lowland Cedar	Sawtimber Well	7.6	96	81-110	Stand is a mix of species. The South part of the stand consists of a young stand of balm mixed with birch and balsam. The birch and balsam are mature. The balm is regenerating as a result of the older balm dying out. The northern portion of the stand consist of a cedar swamp.
13	6132 - Mixed Lowland Forest with Cedar	Poletimber Poor	60.2	112	81-110	Previous landowner cut pockets out of this stand 10-15 years ago. What remains are pockets of mature cedar with pockets of regen. Some areas were cut harder than others. Regen consists of aspen, balsam, birch, and cedar. I did notice a very small amounts of regeneration, 1-2' high.
17	6120 - Lowland Cedar	Poletimber Well	510.4	94	51-80	Stand ranges from very dense young cedar to older larger diameter cedar. Balsam understory is thick in spots and not in others. Stand is healthy and is doing well. Very little sign of deer activity. Cedar regen is not browsed. There are some old cars in the woods in the SW part of stand near stand 7
19	6112 - Lowland Aspen	Poletimber Well	55.1	27	Unspecified	Young aspen stand. Stand is fully stocked and becoming pole size. Scattered maple and oak. Leaf-off imagery shows two pockets of pure balm and ash in the wetter areas.

Report 7 – Forested Stands

Compartment: 21
Year of Entry: 2019



S t a n d	Sault Ste. Marie Mgt. Unit		Report 7 – Forested Stands			Compartment: 21 Year of Entry: 2019
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	107.7	75	81-110	Stand contains various ages of ash. Ground is low. Scattered red maple and aspen are amongst the ash. Stand is extremely wet.
21	6115 - Lowland Ash	Poletimber Well	36.1	54	51-80	Stand is fairly young. Can still see the remnants of old stumps from an old clear cut. Stand is in good condition. The ash and red maple and very straight and good quality.
23	6111 - Lowland Balsam Poplar	Poletimber Well	3.2	40	1-50	Stand is mostly ash and balm, and extremely wet.
24	6120 - Lowland Cedar	Sawtimber Well	18.4	78	51-80	Previous owner selectively cut a small amount of cedar from the stand. Stand was essentially released and is doing very well. Stand is in good condition and contains a mix of species.
26	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	2.7	70	Unspecified	Sand Island, Canopy species appear to include cedar, spruce, and birch
28	6115 - Lowland Ash	Poletimber Well	17.9	77	51-80	Stand is dominant to ash. Ash varies in age. Small stand of cedar exists on the south end of stand (too small to delineate). Narrow road meanders through the stand, is now more of a walking trail.
29	6120 - Lowland Cedar	Poletimber Well	11.0	90	81-110	South of road along marsh, no treatment recommended.
30	6112 - Lowland Aspen	Sapling Well	18.4	27	Unspecified	Stand is a fully stocked aspen stand. Stand looks good.
32	6115 - Lowland Ash	Sawtimber Well	28.5	107	51-80	Nice stand of green ash. Stand is uneven aged. Stand is in good condition. Knob on north west end is an old home site.
33	6130 - Fir, Aspen, Maple	Poletimber Poor	5.9	80	51-80	Most of stand blew over in a previous windstorm (5 yrs. ago?) Timber along the road is still standing. Stand is extremely wet.
34	4130 - Aspen	Poletimber Well	22.8	77	51-80	Stand is on a series of ridges. West side is high and rocky. East side is lower and contains more conifer. Stand contains a 2 acre hardwood type in the north central part of the stand.
35	6123 - Lowland Fir	Sapling Well	17.0	30	Unspecified	Limestone shelf, shallow soils. Typical beach ridge. Thick, young balsam is dominant within the stand.
37	6120 - Lowland Cedar	Poletimber Well	9.0	117	Unspecified	Ground is low. Timber is poorer quality. Cedar is small pole timber. Very small pond within the center of stand, unique area.
38	6120 - Lowland Cedar	Poletimber Well	18.5	97	Unspecified	Stand contains very thick cedar. Cedar is pole sized and gets smaller the closer you get to Bender Lake, pitcher plants near the lake.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	4110 - Sugar Maple Association	Sawtimber Well	100.0	85	81-110	Stand has a lower BA but has some potential crop trees for the future. Stand is rocky but trees look healthy. Some areas contain decent 1-2" dbh sugar maple recruitment. Some ironwood also. Stand was thinned hard 20 years ago.
40	4140 - Other Upland Deciduous	Poletimber Medium	47.9	85	1-50	This stand is known for it's fossil beds. Soil is extremely shallow. Birch and aspen are in tough shape due to the shallow soils, and stand is sparse and converting to spruce/fir. Ground is undulating hills with fossils present along the rocky areas. Very unique area, very much like Drummond Island.
41	42360 - Upland Cedar	Poletimber Medium	7.8	85	51-80	
42	4130 - Aspen	Sawtimber Well	19.1	70	51-80	Ground is very rocky. Stand contains clones of quaking aspen of poorer quality. A majority of the maple is quite small yet and needs time to become merchantable.
43	42360 - Upland Cedar	Poletimber Well	26.3	107	51-80	Stand is on a slope. Ground is higher on the West side than on the East. Ground is high and rocky. Cedar and birch are small diameter but in good condition.
45	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	12.4	92	51-80	Aspen is old and is in need of mgmt. but is sparse. Stand contains a thick conifer understory so this stand has converted to spruce/fir poles, cedar on the west side.
46	4193 - Birch, Aspen	Poletimber Well	10.2	93	51-80	Timber is poorer quality but can hold for ten more years.
47	4139 - Aspen, Mixed Deciduous	Sawtimber Well	30.2	72	81-110	Stand is a 50/50 mix of aspen and sugar maple. Sugar maple is ok quality, small diameter. Aspen is large and mature. Stand is on a rocky ridge.
48	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	8.2	33	Unspecified	The majority of the stand is a low ash swale. North East corner contains some birch and aspen. South West corner contains some aspen. Both areas are too small to delineate.
49	4134 - Aspen, Spruce/Fir	Sawtimber Well	15.1	93	51-80	Mostly aspen, grades downward to the east getting very wet with open seeps. Hardwood area is on the west side, more upland on a ridge.
50	4139 - Aspen, Mixed Deciduous	Poletimber Well	20.9	66	51-80	Hardwood component is too small to manage, a lot of aspen within the hardwood pocket, timber quality is decent, a few potential crop trees exist, round is rocky within the stand.
51	4134 - Aspen, Spruce/Fir	Sawtimber Well	3.3	93	51-80	Mostly aspen, grades downward to the east getting very wet with open seeps. Hardwood area is on the west side, more upland on a ridge.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	310 - Herbaceous Openland	5.0	No	
3	310 - Herbaceous Openland	5.4	No	
10	6220 - Alder/willow	10.3	No	Illegal trail through stand to/from stand 4 and 12. can be seen on imagery.
14	6220 - Alder/willow	62.6	No	Alder/Willow marsh.
15	3301 - Low Density Deciduous Tree	0.9	No	Looks like an old landing, road goes through it.
16	6229 - Mixed lowland shrub	15.5	No	Also has low density cedar and lowland deciduous.
18	500 - Water	1.4	No	Looks like an old sand pit with water. I saw a family swimming there one summer.
22	3303 - Mixed Low Density Trees	2.0	No	Was an opening but is now low density trees of various types, contains the road access to this block.
25	6220 - Alder/willow	50.2	No	
27	310 - Herbaceous Openland	1.4	No	Old dump and cars in the woods around this stand.
31	6220 - Alder/willow	29.7	No	
36	500 - Water	6.6	No	Bender Lake
44	310 - Herbaceous Openland	3.5	No	Contains a well in the middle. Stand is much like Drummond Island openings. Scattered spruce trees.