



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45004

Entry Year 2019

Acreage: 5,142

County Chippewa

Management Area: Drummond Island

Revision Date: 2017-08-02

Stand Examiner: Josh Brinks

Legal Description:

T42N R06E Sec. 1, 2, 3, 9, 10, 11, 12, 13, 14 and 16; T43N R06E Sec. 34, 35, 36; T42N R07E Sec. 5, 6, 7, 8 and 18;
T43N R07E Sec. 31

Identified Planning Goals:

The primary goal of this compartment is to provide a variety of age classes of aspen to promote habitat for grouse and other associated species. This compartment contains the Drummond GEMS which is a walk in only hunting area specifically for upland bird hunters. Currently there are 206 acres on contract of aspen clear cuts within the GEMS. All new treatments that are being proposed are of mature stands of aspen that will be cut to regenerate aspen. These treatments are being delayed until YOE 2024 in accordance with the Drummond GEMS plan.

Soil and topography:

Pickford-Rudyard-Ontonogon Association, very deep, nearly level to very steep, poorly drained and well drained, loamy soils on lake plains. Shelter-Posen-Summerville Association, very deep and shallow, nearly level to very steep, somewhat poorly drained and well drained, loamy soils on ground moraines and glacial lake benches. Markey-Dawson Association, very deep, nearly level, very poorly drained, mucky and peaty soils on outwash plains, lake plains, and ground moraines. The land is generally flat with mostly lower ground.

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

A contiguous block of state ownership with private land to the south, and along the east and west sides. There is also a strip of privately owned forty's along the north side of the compartment. The largest concentration of private ownership is along the shore lines of Stott's and Potagannising bays. The compartment is primarily used for hunting and bird watching in the interior. It is also used as access to the bay and to the river system.

Unique Natural Features:

There is a small amount of Alvar in the north part of the compartment. Part of the Potagannising Flooding is in the south part of the compartment with access to First and Second Lakes. MNFI has been consulted and comments received regarding potential and documented T & E species.

Archeological, Historical, and Cultural Features:

Three archaeological sites are located within this compartment. They include Native American mounds and scattered prehistoric artifacts. As no treatments are proposed for stands containing these sites, there is no concerns at this time. These sites need to be avoided during any work in the compartment. Contact SHPO archaeologists for more information.

Special Management Designations or Considerations:

There are numerous ERA's, SCA's, and MNFI elemental occurrences in this compartment. The most noteworthy ERA's are the great lakes coastal marsh and the alvar. Treatments in this compartment are being designed to avoid impact on areas that need to be protected.

Watershed and Fisheries Considerations:

This compartment contains parts of First and Second Lakes, which are part of Potagannising River. These lakes provide valuable northern pike spawning habitat, which is accessible through a rock ramp at the Potagannising dam. Since no treatments are prescribed near water in this compartment, Fisheries has not comments

Wildlife Habitat Considerations:

This compartment is part of the Drummond Island Management Area, and featured wildlife species include black bear, northern goshawk, ruffed grouse, sharp-tailed grouse, snowshoe hare, and white-tailed deer. The Drummond GEMS is a major portion of the compartment. Much of this same area had been managed intensively over the past 30 years to

provide a matrix of multi-age aspen stands as part of the Deer Range Improvement Program. Management in the GEMS has continued with a similar concept. Treatments planned will eventually result in smaller stand sizes and greater age class diversity than what is currently present to benefit ruffed grouse, woodcock, and snowshoe hare. Walk-in access will be maintained. Management here will also benefit deer, black bear, and other species. The compartment also includes part of the Potagannissing Flooding State Wildlife Management Area. The SWMA supports waterfowl, eagles, beaver, and a variety of other wetland wildlife, and is a popular area for waterfowl hunting on the island. Wetlands in the SWMA will be maintained or enhanced as well as buffered appropriately during forest treatments. The northern part of the compartment contains some of the alvar that is an important component of the Maxton Plains. Alvar will be maintained, which may include invasive species monitoring and treatments. All management in the compartment will be consistent with the GEMS management plan and the Drummond Island Comprehensive Resource Management Plan.

Mineral Resource and Development Concerns and/or Restrictions

Sand/gravel pits are not known in the area and potential is limited. There is limestone/dolostone potential within the compartment, but the quality of the material may be lower than what is currently being mined on the island to the south. 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:

The primary access to this compartment is along county roads which access the perimeter of the compartment on the north and west sides. Vehicle access to the interior part of this compartment is limited. There is a road system within the Drummond GEMS but is closed to vehicle access except for management activities.

Survey Needs:

A survey has been requested for this compartment and is needed for the treatments that are being proposed along with determining the boundary of the GEMS. There is limited survey control in the area and the survey will be difficult and time consuming.

Recreational Facilities and Opportunities:

The Drummond Island GEMS provides walk-in only hunting access to the core area of the compartment. The trail system can be accessed from a parking area located off of Maxton Rd. which has a kiosk with a map of the GEMS or from the two gates locate on Damit Rd. There is an improved boat launch located on Potagannissing Bay. The snowmobile trail runs through the west side of the compartment then uses county roads which borders the north side of the compartment.

Fire Protection:

Besides the county roads and portions of the GEMS trail there is not much improved road access to this compartment. The timber types in this area do not cause much concern and most of the area has fairly wet low ground. There is a decent amount of urban interface on the west side of this compartment. There are numerous water sources on the west side including the boat launch on Damit Rd, the boat launch on the bay and the stream crossing on Maxton Rd.

Additional Compartment Information:

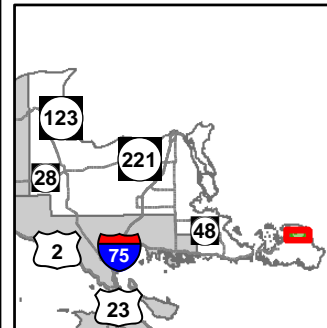
The following reports from the Inventory are attached:

- 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:

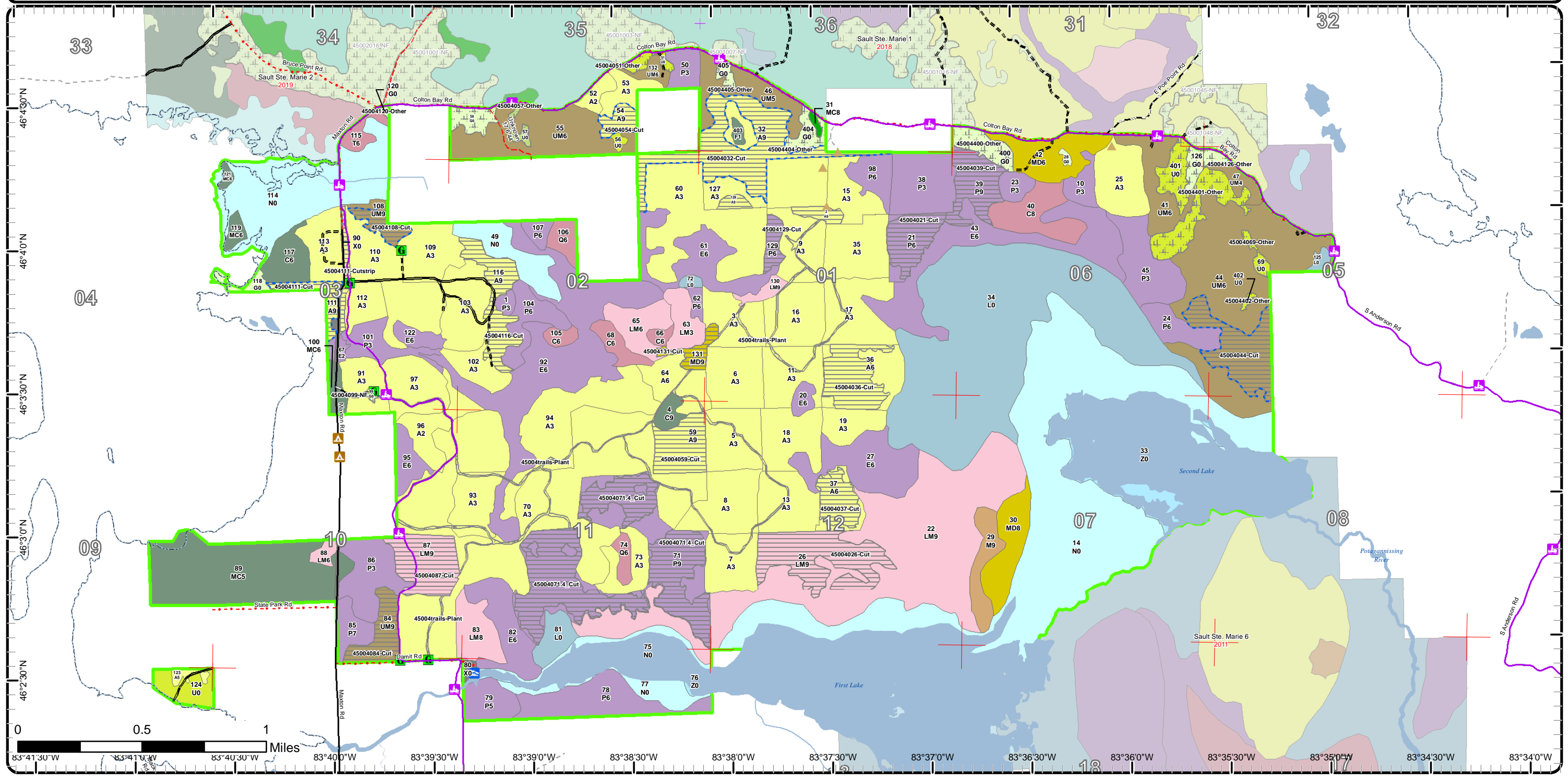
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

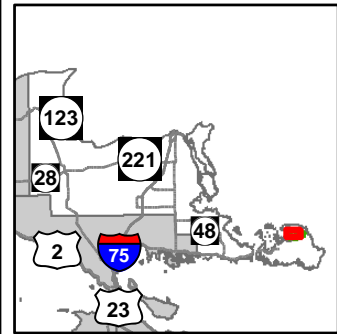


Compartment: 4
 T43N, R06E, Sec: 34-36
 42N, R06E, Sec: 1-3, 9-12, 14
 T43N, R07E, Sec: 5-8, 18
 T43N, R06E, Sec: 31
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Drummond Island
 YOE: 2019
 Acres: 5,142 GIS Calculated
 Examiner: Josh Brinks
 Map Revised: 7/30/2018
 Map Phase: Post Review

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|---|-----------------------------------|---------------------------------|-------|
| — Miris Corners | Boating Access Site | 413 - Aspen | Lakes |
| — Remonumented Section Corners | ▲ Campground | 419 - Mixed Upland Deciduous | |
| --- Counties | --- Intermittent Stream | 422 - Natural Pines | |
| — DNR - Primary Forest Road | --- Island in Lake or River | 423 - Other Upland Conifers | |
| — DNR - Secondary Forest Road | — Lake/Pond | 430 - Upland Mixed Forest | |
| == DNR - Forest Access Route | — Perennial River | 611 - Lowland Deciduous Forest | |
| — Federal / State / County - Paved Road | — Shoreline | 612 - Lowland Coniferous Forest | |
| - - - County - Gravel Road | Lakes and Rivers All | 613 - Lowland Mixed Forest | |
| - - - County - Dirt Road (Seasonal) | ■ Compartment Boundary | 122 - Roads/Parking Lot | |
| - - - Private - Dirt / Gravel Road | ■ Treatments with Site Conditions | 310 - Herbaceous Openland | |
| ■ Snowmobile Trails | ■ Other Treatment - See Comments | 320 - Upland Shrub | |
| — Designated Snowmobile Trails | ■ Planting (tree species) | 330 - Low Density Trees | |
| ▲ Berms | ■ Clearcut (w/Reserves) | 500 - Water | |
| ■ Gate | ■ 411 - Northern Hardwood | 622 - Lowland Shrub | |
| | | 623 - Emergent Wetland | |

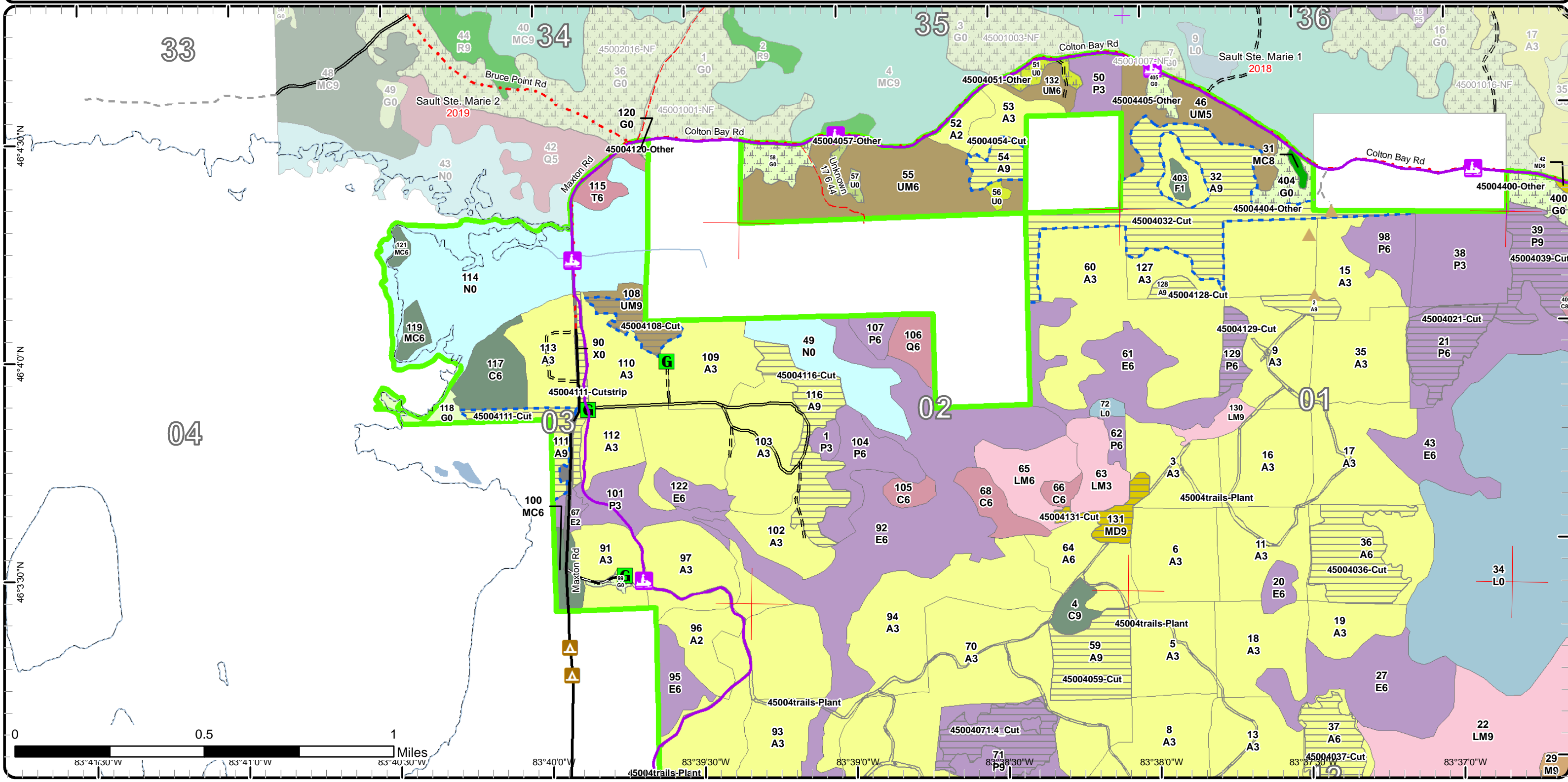


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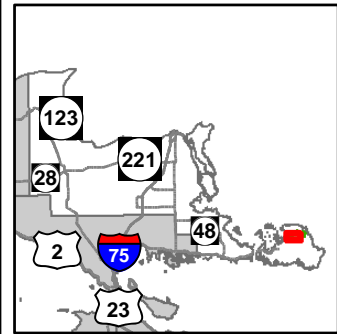


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| ⊕ Remonumented Section Corners | — Lake/Pond | ■ 611 - Lowland Deciduous Forest |
| ⊠ Counties | — Perennial River | ■ 612 - Lowland Coniferous Forest |
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| — Federal / State / County - Paved Road | ■ Treatments with Site Conditions | ■ 320 - Upland Shrub |
| — County - Gravel Road | ■ Other Treatment - See Comments | ■ 330 - Low Density Trees |
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| — Designated Snowmobile Trails | ■ 413 - Aspen | |
| ▲ Berms | ■ 419 - Mixed Upland Deciduous | |
| ■ Gate | ■ 422 - Natural Pines | |
| | ■ 423 - Other Upland Conifers | |

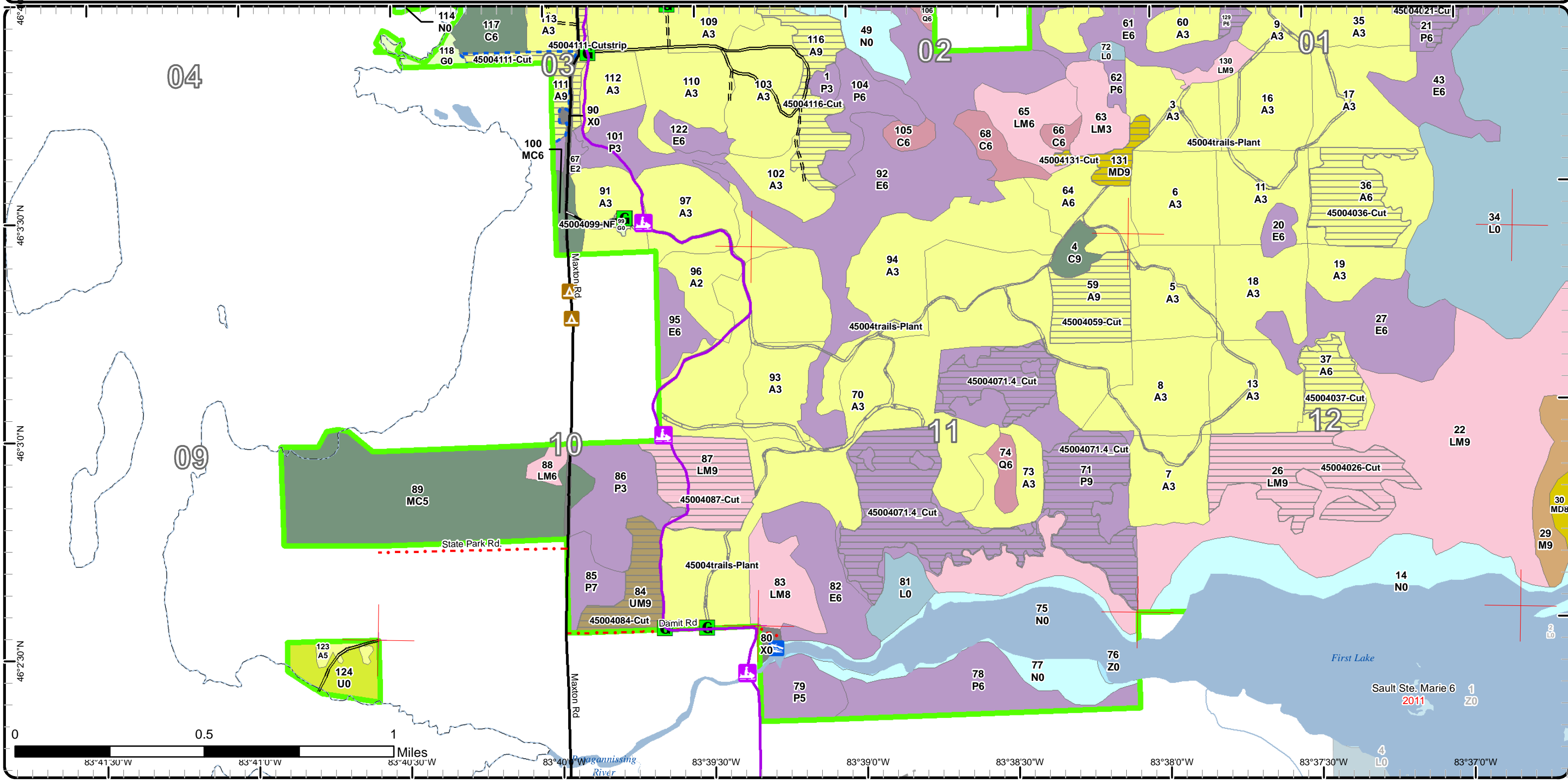


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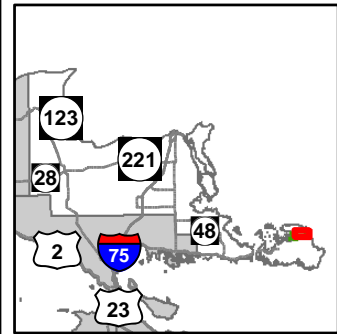


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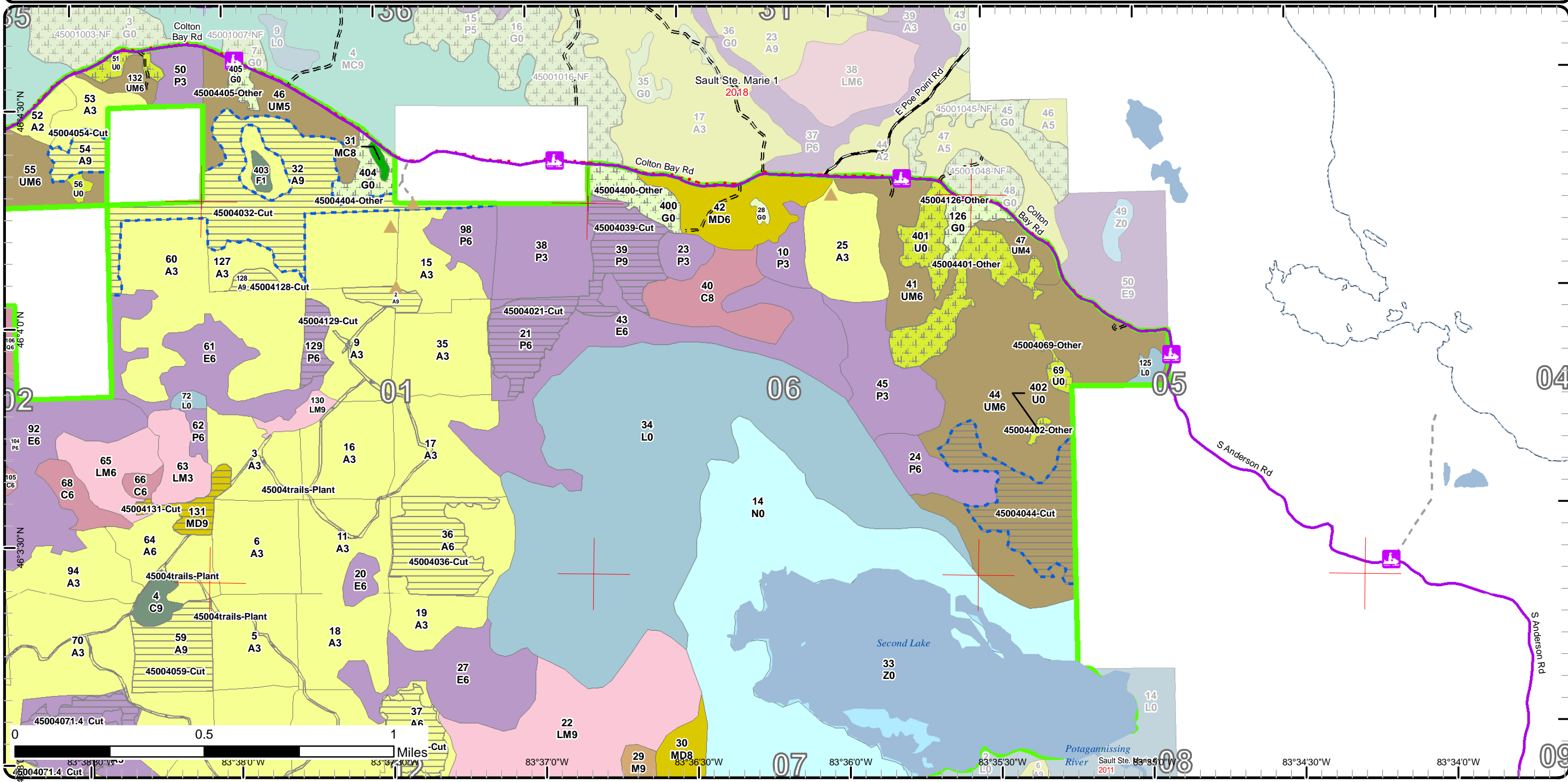


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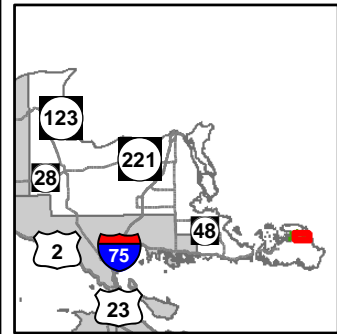


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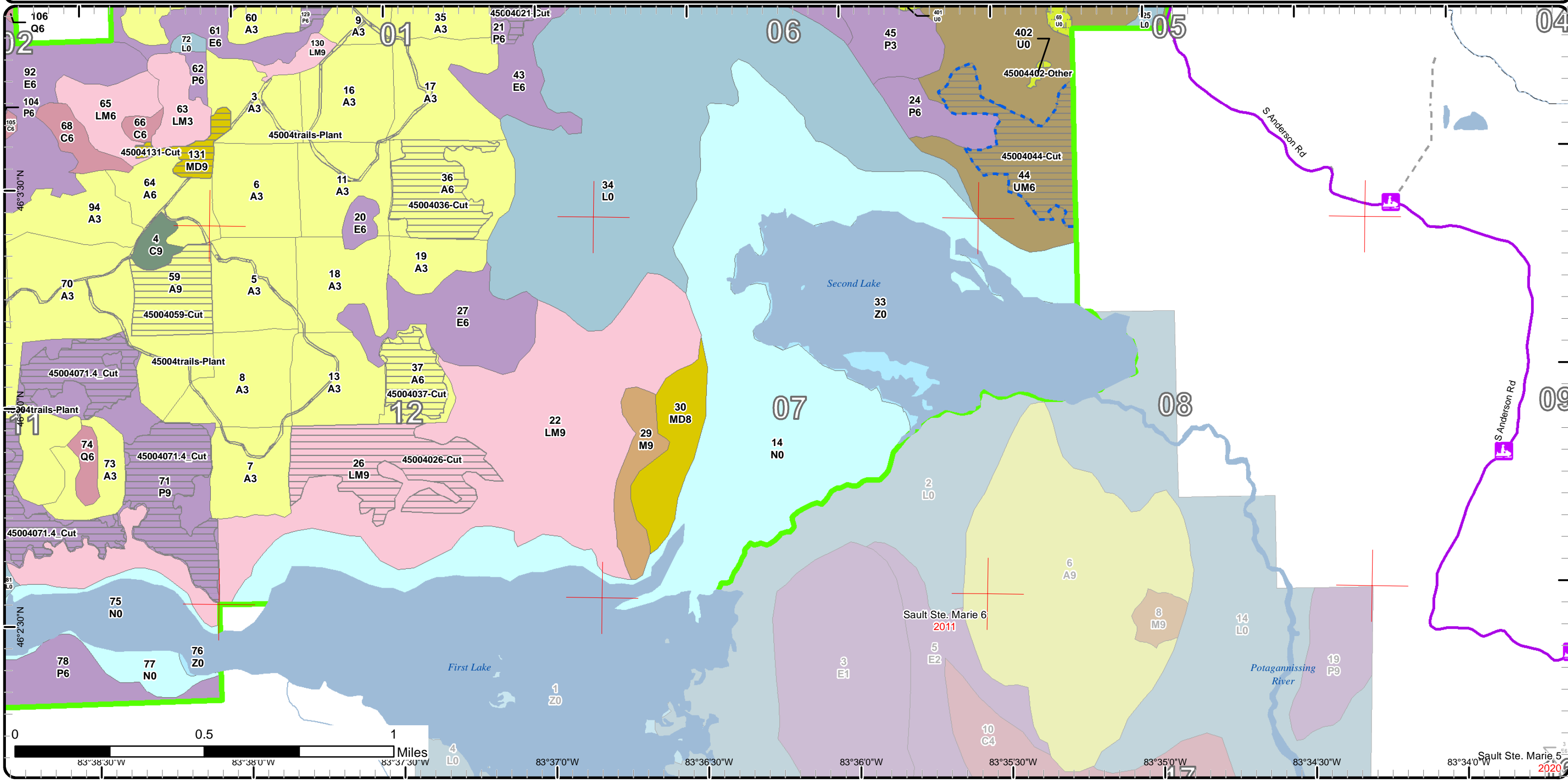


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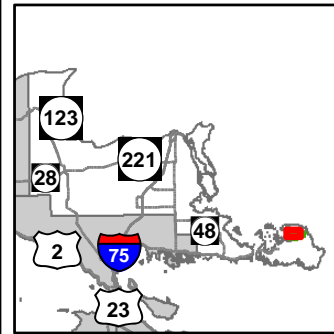
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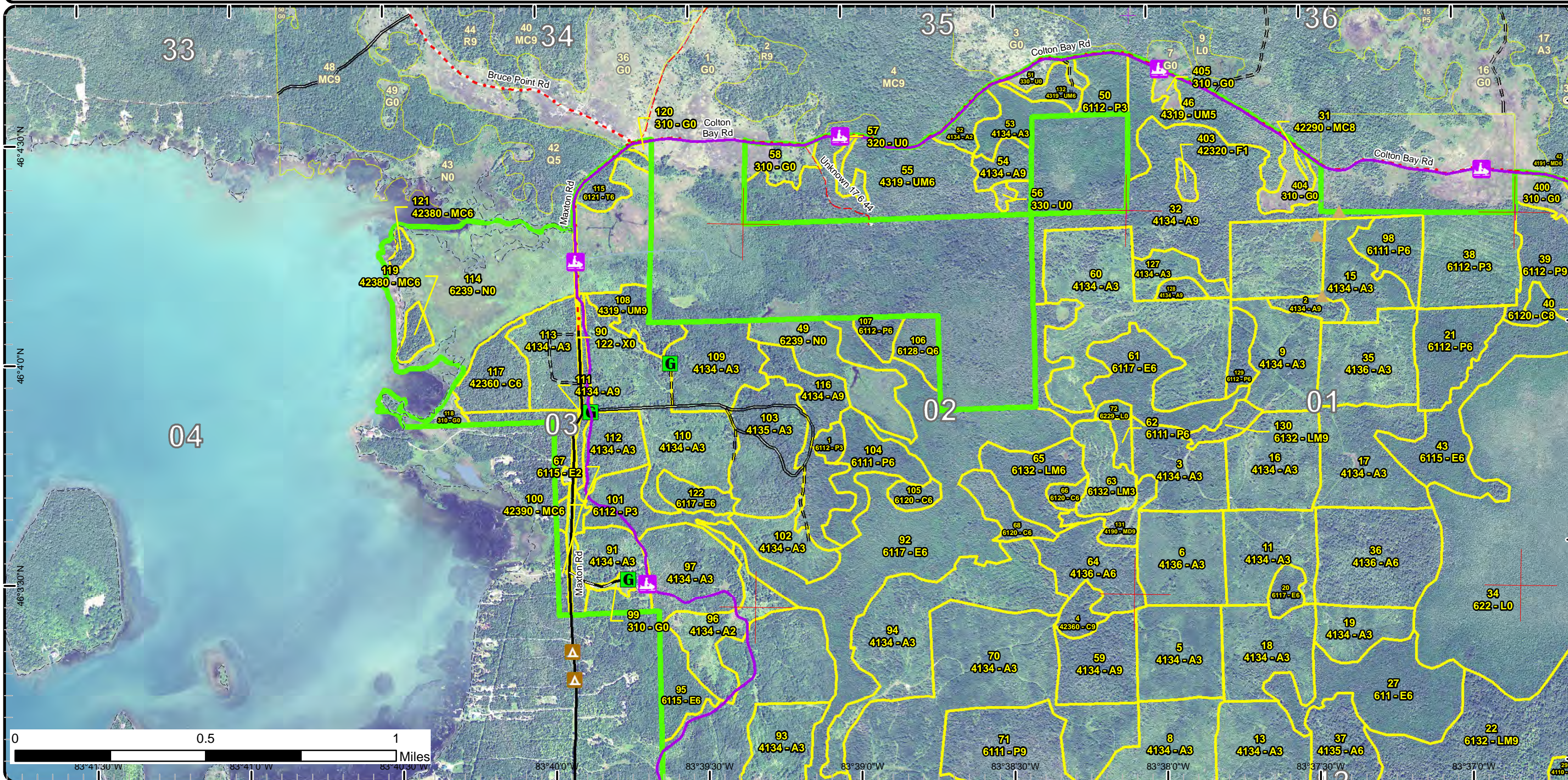


Stand Boundary Map

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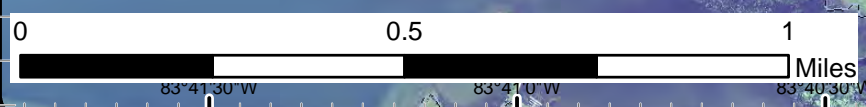
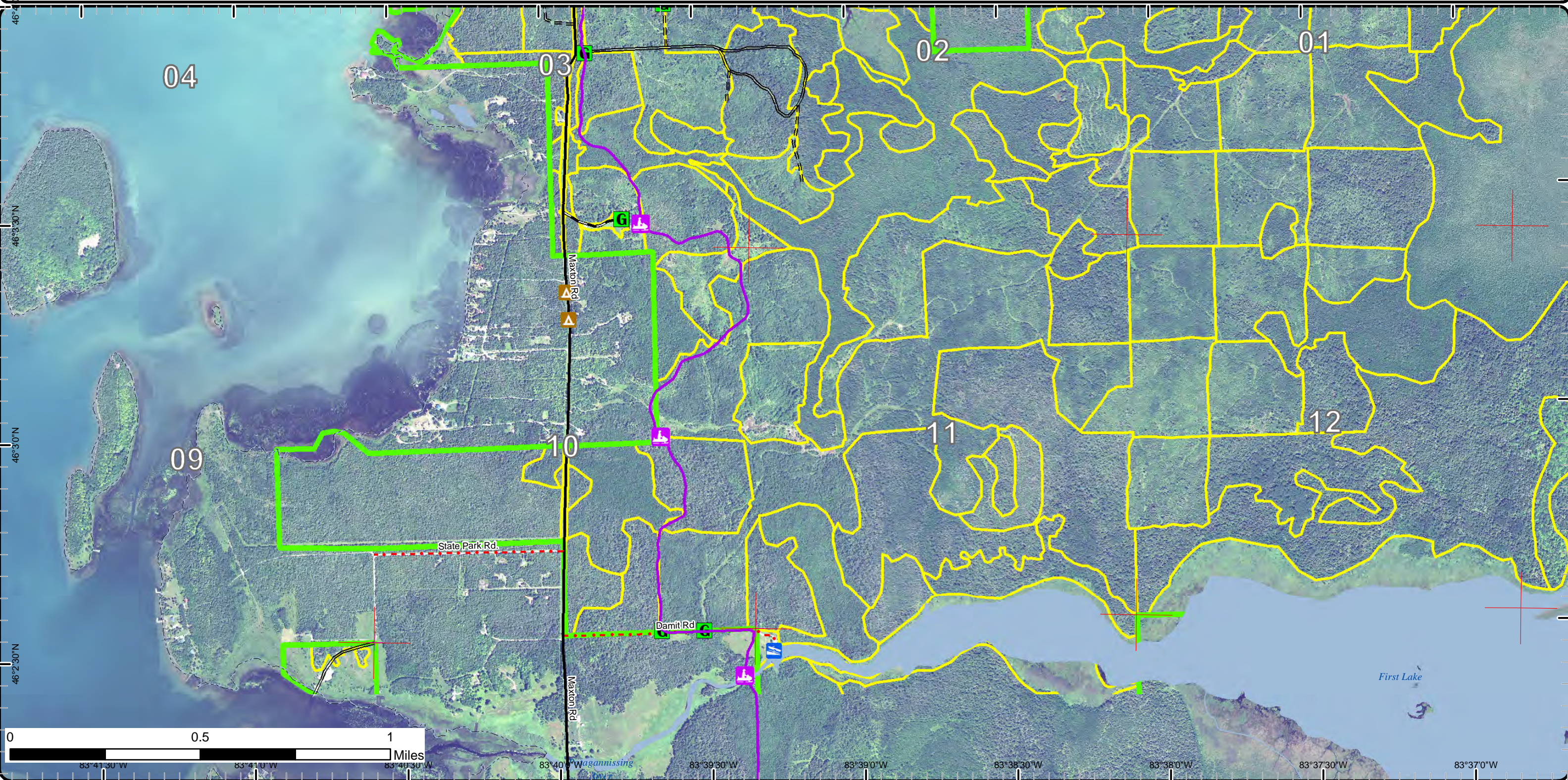


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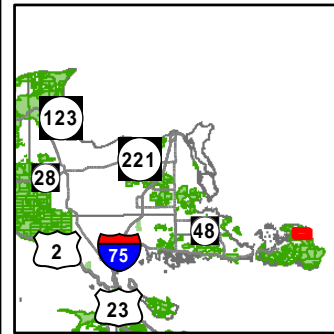


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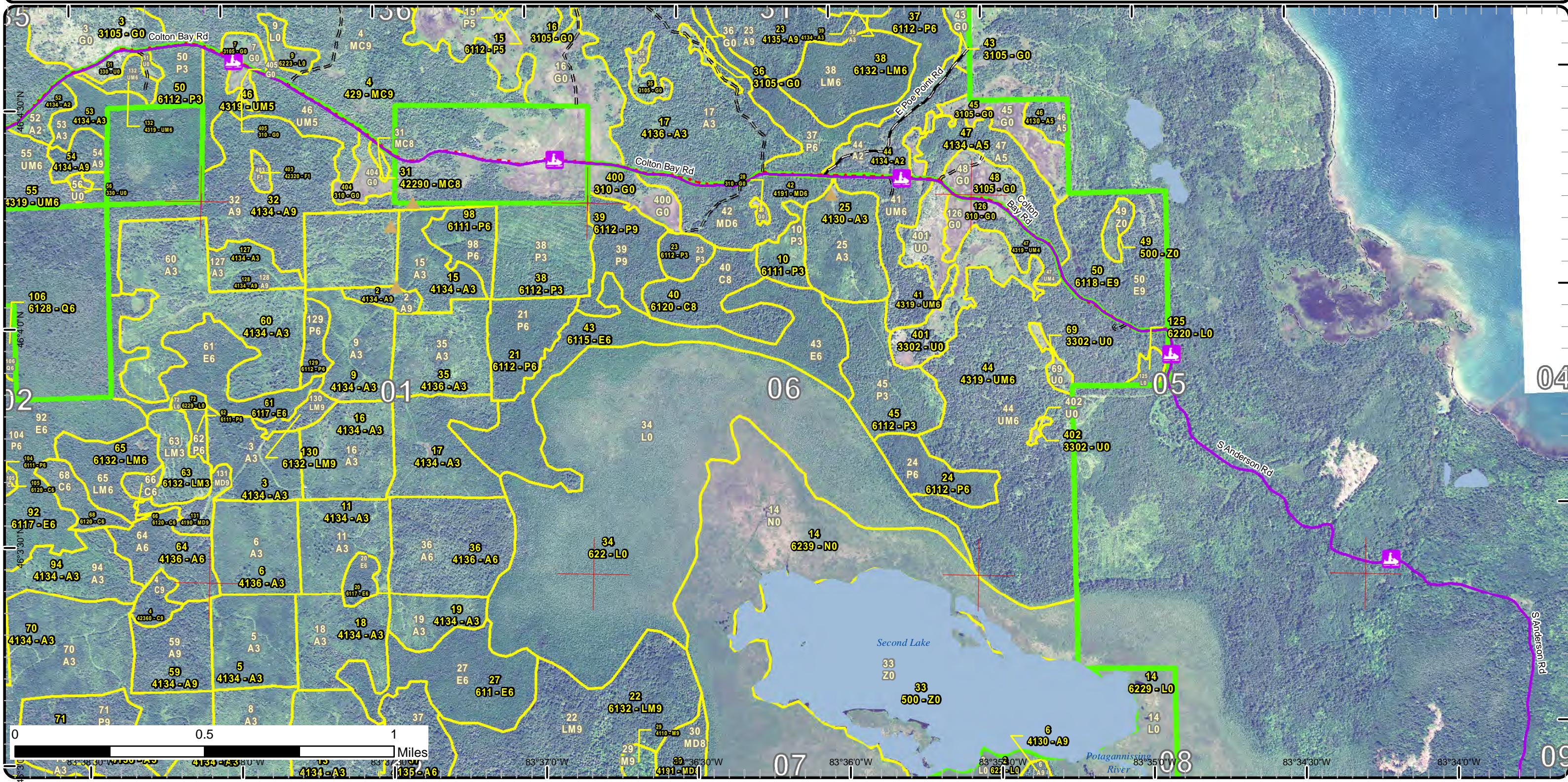


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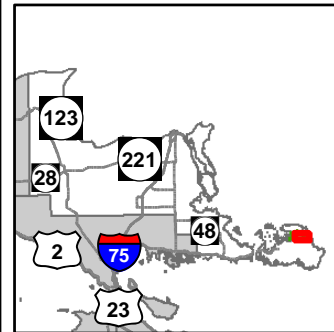


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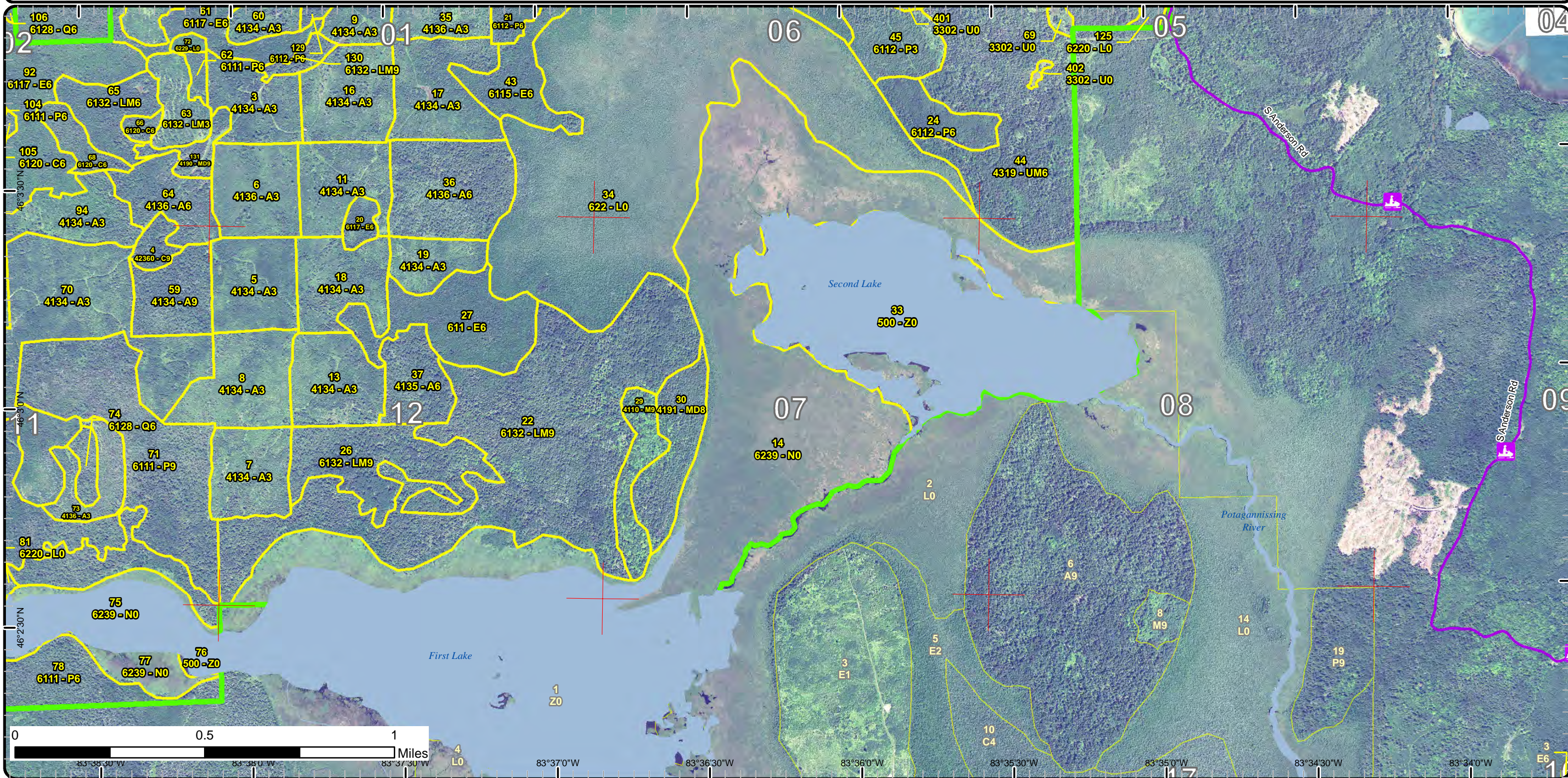


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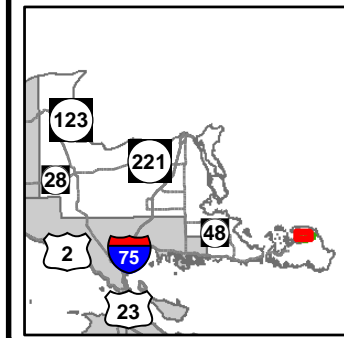


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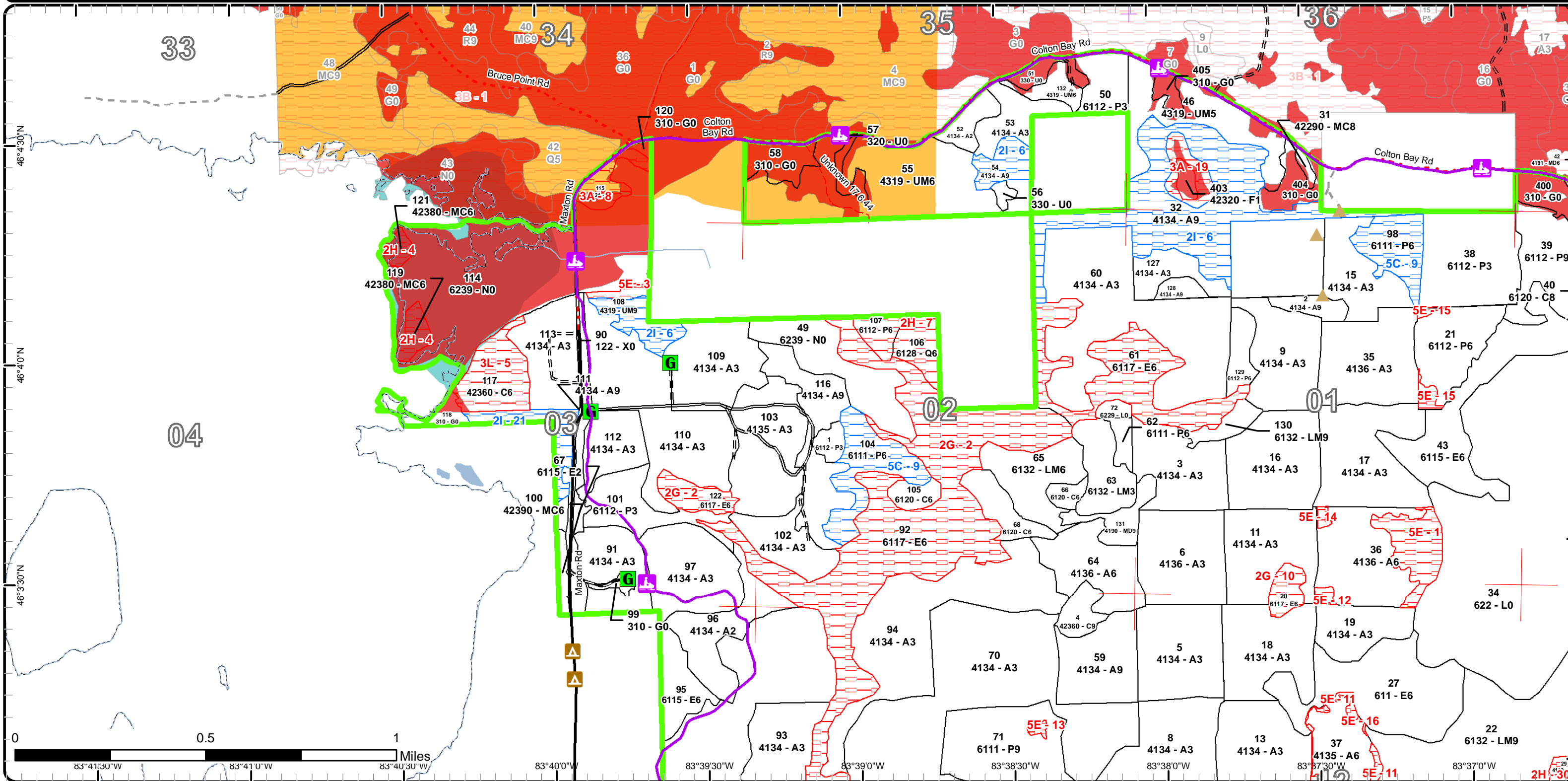


Special Conservation Areas & Site Conditions Map

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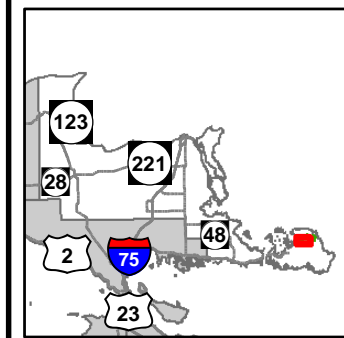


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Coastal Environmental Areas
- Non-Dedicated Natural Areas and National Natural Landmarks

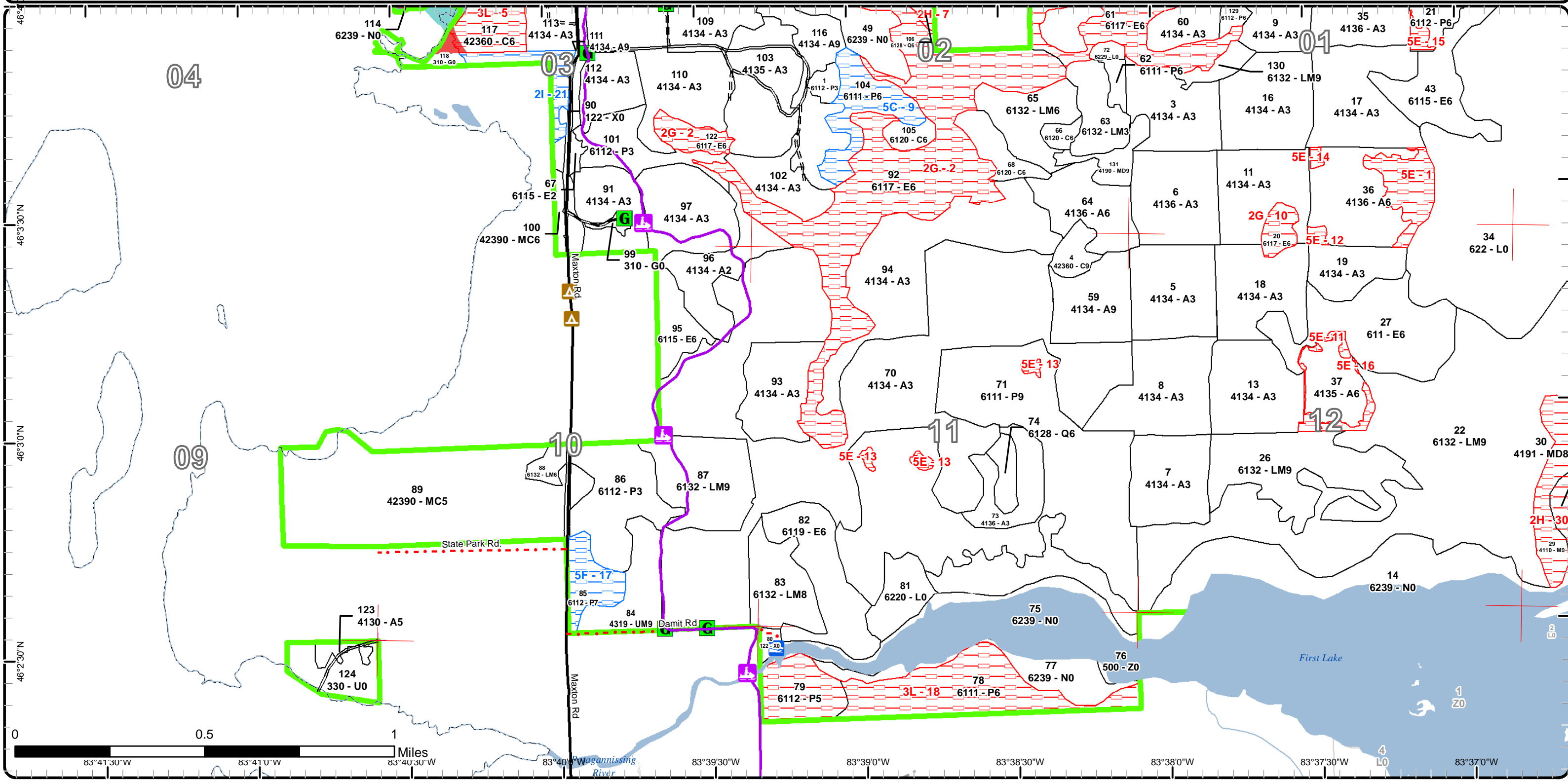


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 Map Phase: Post Review

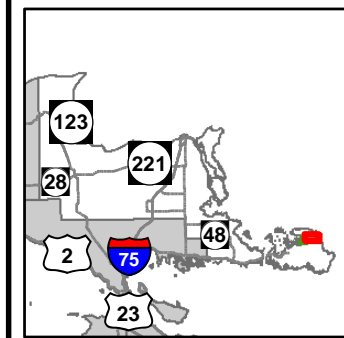


- Miris Corners
- Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- ... County - Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Gate
- Boating Access Site
- Campground
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Available w/ Constraints
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Coastal Environmental Areas
- Cold Water Streams
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)

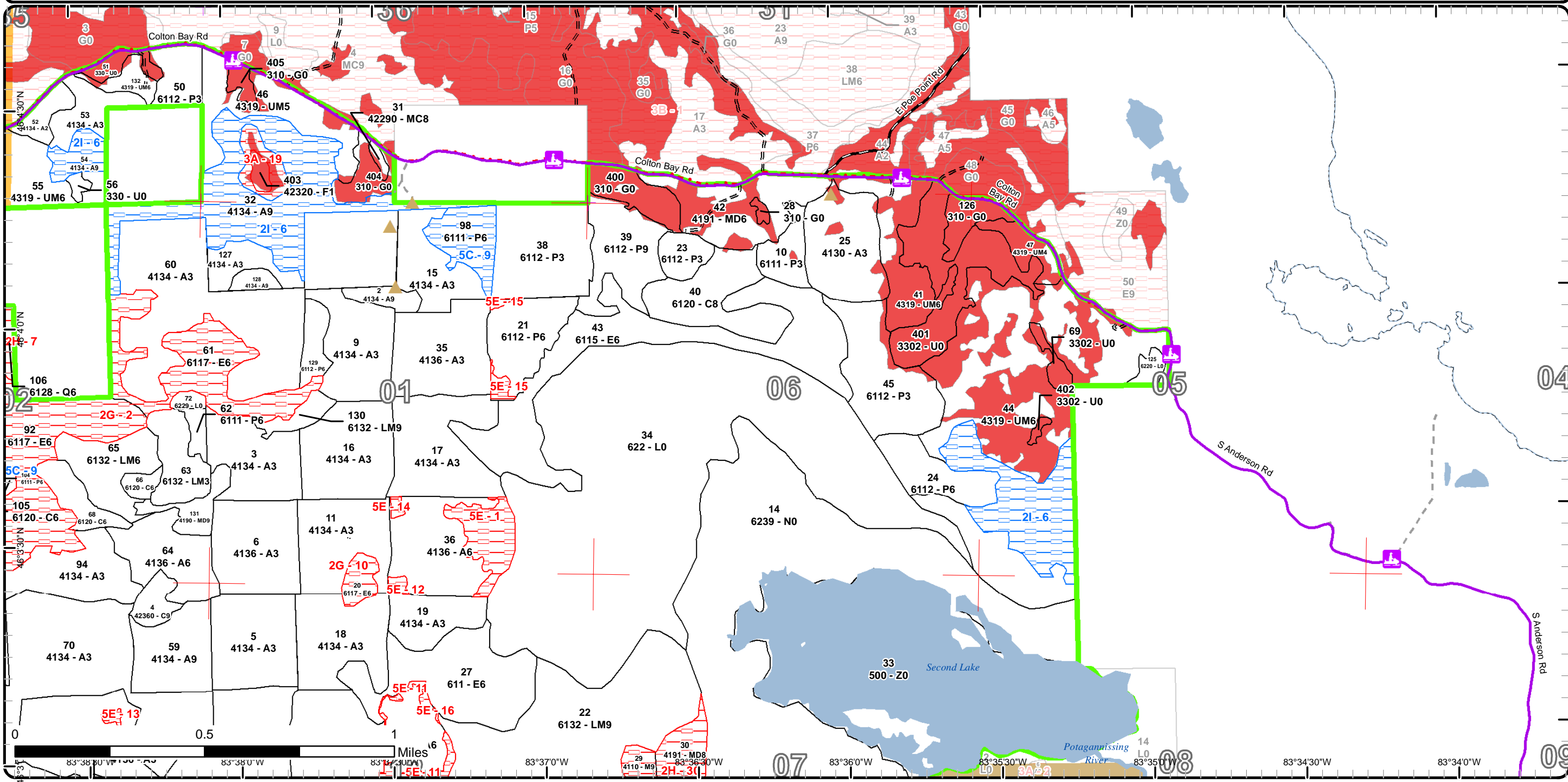


Special Conservation Areas & Site Conditions Map

Compartment: 4
 T43N, R06E, Sec: 34-36
 42N, R06E, Sec: 1-3, 9-12, 14
 T43N, R07E, Sec: 5-8, 18
 T43N, R06E, Sec: 31
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Drummond Island
 YOE: 2019
 Acres: 5,142 GIS Calculated
 Examiner: Josh Brinks
 Map Revised: 7/30/2018
 Map Phase: Post Review

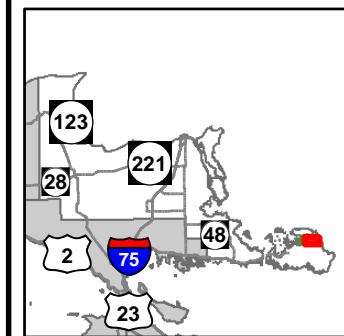


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Berms
- Island in Lake or River
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 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)
- 3A: Conservation Values incompatible with harvest at this time
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Forest Habitat Core Interior
- Non-Dedicated Natural Areas and National Natural Landmarks

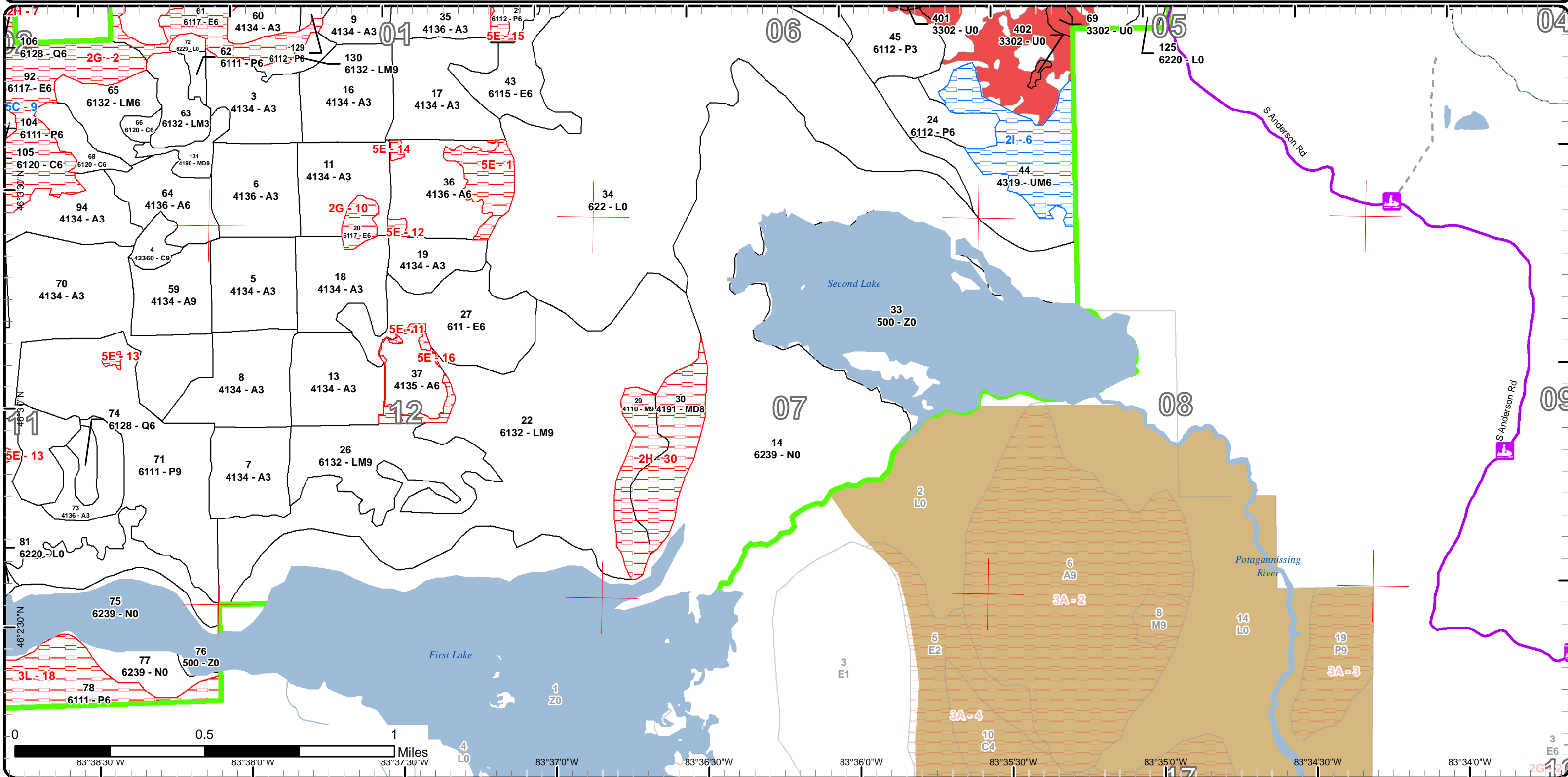


Special Conservation Areas & Site Conditions Map

Compartment: 4
 T43N, R06E, Sec: 34-36
 42N, R06E, Sec: 1-3, 9-12, 14
 T43N, R07E, Sec: 5-8, 18
 T43N, R06E, Sec: 31
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Drummond Island
 YOE: 2019
 Acres: 5,142 GIS Calculated
 Examiner: Josh Brinks
 Map Revised: 7/30/2018
 Map Phase: Post Review



- Miris Corners
 - Counties
 - DNR - Secondary Forest Road
 - Private - Dirt / Gravel Road
 - Snowmobile Trails
 - Designated Snowmobile Trails
 - Island in Lake or River
 - Lake/Pond
 - Perennial River
 - Shoreline
 - Lakes and Rivers All
 - Compartment Boundary
 - Available w/ Constraints
 - Unavailable
- Stand Boundaries
 - Ecological Reference Areas
 - Forest Habitat Core Interior
 - Cold Water Streams
- 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)
 - 3L: Other wildlife concerns
 - 5E: Long-Term Retention



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	119	523	679	0	0	4	0	0	31	214	9	0	0	0	0	0	27	1605
Cedar	0	0	0	0	0	0	0	0	0	20	8	49	0	0	0	0	0	6	83
Herbaceous Openland	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Low-Density Trees	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Lowland Aspen/Balsam Poplar	0	40	51	104	0	0	0	21	73	8	49	0	218	0	0	0	0	0	563
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	7	17
Lowland Deciduous	0	0	0	4	0	15	36	58	84	0	44	151	0	0	0	0	0	0	391
Lowland Mixed Forest	0	18	0	0	0	0	0	0	0	0	69	0	319	0	0	0	0	29	435
Lowland Shrub	356	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	356
Marsh	682	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	682
Mixed Upland Deciduous	0	0	0	0	0	0	36	0	33	0	10	0	0	0	0	0	0	0	79
Natural Mixed Pines	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	22
Tamarack	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	8
Upland Conifers	0	0	0	0	0	0	0	0	0	8	129	0	0	0	0	0	0	0	137
Upland Mixed Forest	0	0	0	0	0	10	7	190	63	14	22	70	0	0	0	0	0	0	376
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Water	235	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	235
Total	1422	177	574	787	3	25	83	279	253	81	578	279	537	0	0	0	0	69	5143



Report 2 – Treatment Summary

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

Compartment 4
Total Compartment Acres: 5,142

Acres of Harvest

Commercial Harvest - 443
Harvests with Site Condition - 149
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	221	0	0	0	0	0	0	0	0	221
Lowland Aspen/Balsam Poplar	192	0	0	0	0	0	0	0	0	192
Lowland Mixed Forest	93	0	0	0	0	0	0	0	0	93
Mixed Upland Deciduous	10	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	77	0	0	0	0	0	0	0	0	77
Total	592	0	0	0	0	0	0	0	0	592

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	592	0	26	0	0	0	107	2		728
Next Step	0	0	0	0	0	619	0	0		619
Total	592	0	26	0	0	619	107	2		1346



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
2	45004002-Cut	6.2	4134 - Aspen, Spruce/Fir	Sawtimber Well	91	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all trees that are 2" or more in DBH. Do not cut cedar, pine, hemlock, yellow birch, and oak. Treatment size and shape may vary.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Acceptable regen includes aspen, birch, spruce, fir, ash, maple, cedar and pine.

Regen:OtherComment:

Proposed Start Date: 10/01/2023

21	45004021-Cut	24.0	6112 - Lowland Aspen	Poetimber Well	92	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees down to 2" in DBH. Leave patches of thick cedar. Allow for harvest of cedar outside of these patches. Do not cut oak, hemlock or

Specs: pine. Leave 1 acre patches of mature trees in the corners or along the boarder of the treatment.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and

Regen: paper birch, balsam fir, white spruce, black spruce and white pine.

Other winter harvest

Comment:

Proposed Start Date: 10/03/2014

26	45004026-Cut	56.1	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	117	111-140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more to maintain the early successional habitat present for ruffed grouse, snowshoe hare, and other wildlife in the GEMS, and prevent a type conversion. Focus the treatment on areas heavy to aspen. Leave a 0.5 acre retention patch for every 10 acres of harvest to provide budding trees and future drumming logs for grouse as well as cover for other wildlife. Stay out of patches of thick cedar to maintain cedar for cover and stand diversity. Scattered cedar outside of thick patches may be harvested. Work with WLD when painting the sale boundary. Treatment size and shape will vary based on conditions found while setting up the sale. Create or leave some brush piles through normal harvesting operations if possible to benefit snowshoe hare.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Acceptable regen includes aspen, birch, spruce, fir, maple, pine, cedar and ash.

Regen:OtherComment:

Proposed Start Date: 10/01/2023



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
32	45004032-Cut	74.3	4134 - Aspen, Spruce/Fir	Sawtimber Well	97	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition: Survey Needed								
<u>Prescription</u> Cut all deciduous 2" or more and conifer 4" or more to maintain the early successional habitat present for ruffed grouse, snowshoe hare, and other wildlife, and prevent a type conversion. Do not cut oak, hemlock, pine, yellow birch or cedar. Stay out of patches of thick cedar. Leave a 0.5 acre patch of retention for every 10 acres of harvest. Buffer Alvar by at least 100 feet as per WLD. If red pine pockets are greater than 120 basal area then mark some red pine to be thinned. Treatment size and shape may vary.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, spruce, fire, maple, pine, cedar and ash.											
<u>Other Comment:</u> This treatment must be accessed through the GEMS. Survey needed.											
<u>Proposed Start Date:</u> 10/01/2023											
36	45004036-Cut	32.9	4136 - Aspen, Mixed Conifer	Poletimber Well	92	111- 140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees down to 2" in DBH. Leave patches of thick cedar. Allow for harvest of cedar outside of these patches to promote aspen regen. Do not cut oak, hemlock or pine. Leave 1 acre patches of mature timber in the corners or along the boarder of the treatment.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.											
<u>Other Comment:</u> winter harvest											
<u>Proposed Start Date:</u> 10/03/2014											
37	45004037-Cut	18.7	4135 - Aspen, Cedar	Poletimber Well	92	111- 140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees down to 2" in DBH. Leave 1 acre patches of mature trees in corners or along the boarder of the treatment. Leave patches of thick cedar. Allow for harvest of cedar outside of these patches to promote aspen regen. Do not cut oak, pine or hemlock.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.											
<u>Other Comment:</u> Winter Harvest											
<u>Proposed Start Date:</u> 10/03/2014											
39	45004039-Cut	29.2	6112 - Lowland Aspen	Sawtimber Well	74	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees that are 2' or more in DBH. Leave one half acre patch of retention for every 10 acres of harvest area. Do not cut cedar, pine, hemlock, yellow birch, and oak. Treatment size and shape may vary.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Intermediate)											
<u>Treatments:</u>											
<u>Acceptable Regen:</u> Acceptable regen includes aspen, birch, ash, spruce, fir, cedar, pine, maple and tamarack.											
<u>Other Comment:</u> This ground is very wet and should be cut in the winter.											
<u>Proposed Start Date:</u> 10/01/2023											



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
44	45004044-Cut	43.6	4319 - Mixed Upland Forest	Poletimber Well	61	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition: Survey Needed**

Prescription Cut all deciduous 2" or more and conifer 4" or more to maintain the early successional habitat present for ruffed grouse, snowshoe hare, and other wildlife, and prevent a type conversion. Leave a 0.5 acre retention patch for every 10 acres of harvest to maintain mature areas for roosting and budding, and future drumming logs for grouse. Stay out of cedar patches. Leave a buffer along the shore line of second lake. Treatment size and shape may vary.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

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

Other

Comment: Access roads through old cuts is very wet and will need to be froze down. The northern boundary of the treatment has been adjusted to avoid the alvar. Because it is forested at this location there is no need for a 100' buffer. MNFI may do a survey to determine if this is indeed a forested alvar. The boundary may change based on that information.

Proposed Start Date: 10/01/2023

51	45004051- Other	5.7	330 - Low-Density Trees	Nonstocked			Other	Other	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Invasive species treatments and maintenance of the alvar--chemical, treatment by hand, burning, and/or other appropriate method to control

Specs: invasive species and maintain the alvar.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

54	45004054-Cut	9.2	4134 - Aspen, Spruce/Fir	Sawtimber Well	108	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Survey Needed**

Prescription Cut all trees that are 2' or more in DBH. Leave one half acre patch of retention for every 10 acres of harvest area. If treatment is less than 10

Specs: acres then no retention patch is necessary. Do not cut cedar, pine, hemlock, yellow birch, and oak. Treatment size and shape may vary.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

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

Other

Comment:

Proposed Start Date: 10/01/2023

57	45004057- Other	3.9	320 - Upland Shrub	Nonstocked			Other	Other	3102 - Grass		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Invasive species treatments and maintenance of the alvar--chemical, treatment by hand, burning, and/or other appropriate method to control

Specs: invasive species and maintain the alvar.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



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
58	45004058- Other	10.7	310 - Herbaceous Openland	Nonstocked			Other	Other	3102 - Grass		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Invasive species treatments and maintenance of the alvar--chemical, treatment by hand, burning, and/or other appropriate method to control								
<u>Specs:</u>			invasive species and maintain the alvar.								
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable Regen:</u>											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2018								
59	45004059-Cut	27.7	4134 - Aspen, Spruce/Fir	Sawtimber Well	91	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Cut all trees that are 2' or more in DBH to maintain the early successional habitat present for ruffed grouse, snowshoe hare, and other wildlife in the GEMS, and prevent a type conversion. Leave one half acre patch of retention for every 10 acres of harvest area to maintain mature trees for roosting and budding, and future drumming logs for grouse. Do not cut cedar, pine, hemlock, yellow birch, and oak to provide cover and food for various wildlife. Create or leave some brush piles through normal harvesting operations if possible to benefit snowshoe hare. Treatment size and shape may vary.								
<u>Specs:</u>											
<u>Next Step</u>			Monitoring, Natural Regen (Intermediate)								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Acceptable regeneration includes aspen, birch, spruce, fir, pine, maple, cedar and ash.								
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2023								
69	45004069- Other	4.3	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	Other	Other	3102 - Grass		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Invasive species treatments and maintenance of the alvar--chemical, treatment by hand, burning, and/or other appropriate method to control								
<u>Specs:</u>			invasive species and maintain the alvar.								
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable Regen:</u>											
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/01/2018								
71	45004071.4_C ut	130.2	6111 - Lowland Balsam Poplar	Sawtimber Well	111	111- 140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u>			Cut all trees down to 2" in DBH. Leave patches of thick cedar. Allow for harvest of cedar outside of the patches to help promote aspen regen.								
<u>Specs:</u>			Do not cut oak, hemlock, or pine. Leave 1, 1 acre patch of mature aspen for every 20 acres.								
<u>Next Step</u>			Monitoring, Natural Regen (Intermediate)								
<u>Treatments:</u>											
<u>Acceptable Regen:</u>			Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.								
<u>Other Comment:</u>											
<u>Proposed Start Date:</u>			10/03/2014								



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
84	45004084-Cut	22.1	4319 - Mixed Upland Forest	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all trees that are 2" or more in dbh to maintain the early successional habitat present for ruffed grouse, snowshoe hare, and other wildlife in the GEMS, and prevent a type conversion. Make sure to cut as much of the conifer regen as possible. Do not cut cedar, oak, hemlock, pine, and yellow birch. Leave one half acre retention patch for every 10 acres of harvest.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

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

Other Comment:

Other Comment:

Other Comment:

Proposed Start Date: 10/01/2023

87	45004087-Cut	37.2	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees down to 2" in DBH to maintain the early successional habitat present for ruffed grouse, snowshoe hare, and other wildlife in the GEMS, and prevent a type conversion. Do not cut cedar, oak, hemlock, yellow birch or pine to maintain cover and food items for wildlife. Stay out of areas of thick cedar like that along the snowmobile trail and wet areas of black ash like the one on the east side of the stand. Mature trees will offer roosting and budding sites as well as future drumming logs for grouse. The treatment size and shape will vary. Create or leave some brush piles through normal harvesting operations if possible to benefit snowshoe hare.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

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

Other Comment:

Other Comment:

Other Comment:

Proposed Start Date: 10/01/2023

99	45004099-NF	1.9	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Other - Specify		310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

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

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Other Comment:

Other Comment:

Proposed Start Date: 10/01/2018

108	45004108-Cut	11.0	4319 - Mixed Upland Forest	Sawtimber Well	87	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Survey Needed**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Do not cut oak, hemlock, yellow birch, pine, and cedar. Leave one retention patch at least 0.5 acres in size. Stay out of thick patches of cedar. Leave a buffer along the wetland which will most likely leave everything north of the old trail or retain all of the aspen growing over marsh grass.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

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

Other Comment:

Other Comment:

Other Comment:

Proposed Start Date: 10/01/2023



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
111	45004111-Cut	11.2	4134 - Aspen, Spruce/Fir	Sawtimber Well	91	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition: Survey Needed**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave all pine, cedar, yellow birch, oak and hemlock. No additional retention because of the road and snowmobile trail.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

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

Other Comment: Needs survey, once that is done we will reconsider this treatment based on how much there is available to treat. May decide to leave for aesthetic purposes.

Proposed Start Date: 10/01/2023

111	45004111-Cutstrip	6.3	4134 - Aspen, Spruce/Fir	Sawtimber Well	91	111-140	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave all pine, cedar, yellow birch, oak and hemlock. No additional retention because of the road and snowmobile trail.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

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

Other Comment:

Proposed Start Date: 10/01/2023

116	45004116-Cut	30.5	4134 - Aspen, Spruce/Fir	Sawtimber Well	88	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave a representative, healthy, mature tree spaced every 75ft (this will leave 8 trees per acre). Leave a buffer along the wetland on the northern edge. Leave all cedar, white pine, hemlock, yellow birch and oak. Create or leave some brush piles through normal harvesting operations if possible to benefit snowshoe hare. Treatment shape will vary and should be made to follow the timber type on the ground.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

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

Other Comment:

Proposed Start Date: 10/01/2023

120	45004120-Other	1.1	310 - Herbaceous Openland	Nonstocked		Unspecified	Other	Other	3102 - Grass		Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Invasive species treatments and maintenance of the alvar- chemical, treatment by hand, burning, and/or other appropriate method to control invasive species and maintain the alvar.

Next Step
Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018



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
126	45004126-Other	9.5	310 - Herbaceous Openland	Nonstocked		Unspecified	Other	Other	3102 - Grass		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Invasive species treatments and maintenance of the alvar--chemical, treatment by hand, burning, and/or other appropriate method to control
Specs: invasive species and maintain the alvar.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

128	45004128-Cut	3.9	4134 - Aspen, Spruce/Fir	Sawtimber Well	91	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees that are 2' or more in DBH. Do not cut cedar, pine, hemlock, yellow birch, and oak. Treatment size and shape may vary.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

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

Other
Comment:

Proposed Start Date: 10/01/2023

129	45004129-Cut	8.4	6112 - Lowland Aspen	Poletimber Well	81	111-140	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees that are 2' or more in DBH. Do not cut cedar, pine, hemlock, yellow birch, and oak. Treatment size and shape may vary.
Specs:

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

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

Other
Comment:

Proposed Start Date: 10/01/2023

131	45004131-Cut	9.5	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	98	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees that are 2' or more in DBH to maintain the early successional habitat present for ruffed grouse, snowshoe hare, and other wildlife in the GEMS, and prevent a type conversion. Do not cut cedar, pine, hemlock, yellow birch, and oak to maintain cover and food items for wildlife.
Specs: Do not harvest in areas of thick cedar like the southern portion of this stand to maintain that cover. Treatment size and shape may vary.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

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

Other
Comment:

Proposed Start Date: 10/01/2023



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
400	45004400- Other	14.5	310 - Herbaceous Openland	Nonstocked		Unspec ified	Other	Other	3102 - Grass		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Invasive species treatments and maintenance of the alvar--chemical, treatment by hand, burning, and/or other appropriate method to control											
<u>Specs:</u> invasive species and maintain the alvar.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
401	45004401- Other	42.0	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	Other	Other	3102 - Grass		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Invasive species treatments and maintenance of the alvar--chemical, treatment by hand, burning, and/or other appropriate method to control											
<u>Specs:</u> invasive species and maintain the alvar.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
402	45004402- Other	1.1	3302 - Low Density Conifer Trees	Nonstocked		Unspec ified	Other	Other	3102 - Grass		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Invasive species treatments and maintenance of the alvar--chemical, treatment by hand, burning, and/or other appropriate method to control											
<u>Specs:</u> invasive species and maintain the alvar.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											
404	45004404- Other	10.1	310 - Herbaceous Openland	Nonstocked		Unspec ified	Other	Other	3102 - Grass		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Invasive species treatments and maintenance of the alvar--chemical, treatment by hand, burning, and/or other appropriate method to control											
<u>Specs:</u> invasive species and maintain the alvar.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2018											



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
405	45004405-Other	4.2	310 - Herbaceous Openland	Nonstocked		Unspecified	Other	Other	3102 - Grass		Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Invasive species treatments and maintenance of the alvar--chemical, treatment by hand, burning, and/or other appropriate method to control
Specs: invasive species and maintain the alvar.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

70	45004trails-Plant	26.4	4134 - Aspen, Spruce/Fir	Sapling Well	26	Immature	Planting	Other - Specify	320 - Upland Shrub		Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Herbaceous planting of trees and shrubs to enhance wildlife habitat in the GEMS. Treat any invasive species as needed. Remove invasive
Specs: species using chemicals, burning, and/or hand pulling as funding permits. Monitor periodically with drive through surveys.

Next Step Monitoring, Other - Specify
Treatments:

Acceptable herbaceous opening with trees and shrubs along the road.
Regen:

Other This treatment is for all GEMS trails including those already covered by a treatment.
Comment:

Proposed Start Date: 10/26/2017

Total Treatment
Acreage Proposed: 727.6

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 4

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Available With Condition	Acres Not Available
1605	1478	95	33

Dominant Site Conditions

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions								
					2I	5C	5F	2G	2H	3A	3L	5E	
1605	1478	95	33	Aspen	95					8			25
82	62	0	20	Cedar								20	
60	60	0	0	Herbaceous Openland									
72	72	0	0	Low-Density Trees									
564	392	54	118	Lowland Aspen/Balsam Poplar		40	15		6			69	43
18	7	0	10	Lowland Conifers					10				
391	190	0	201	Lowland Deciduous				201					0
434	434	0	0	Lowland Mixed Forest									
356	356	0	0	Lowland Shrub									
682	682	0	0	Marsh									
79	46	0	33	Mixed Upland Deciduous					33				
2	2	0	0	Natural Mixed Pines									
22	0	0	22	Northern Hardwood					22				
8	0	0	8	Tamarack						8			
137	129	0	8	Upland Conifers					8				
375	318	55	3	Upland Mixed Forest	55								3
4	4	0	0	Upland Shrub									
3	3	0	0	Upland Spruce/Fir									
13	13	0	0	Urban									
235	235	0	0	Water									
5,142	4,481	204	457	Total Forested Acres	149	40	15	201	80	16	89	70	
	87%	4%	9%	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	5E: Long-Term Retention	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 4

Year of Entry: 2019

2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	195	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very wet stand of lowland ash and BAM standing water throughout.							
3	Unavailable	5E: Long-Term Retention	3	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments: Buffer along the edge of the great lakes marsh.							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	3B: Threatened, endangered, and special concern species	Unspecified	Unspecified	Unspecified
Comments: Islands of timber in the middle of a great lakes marsh							
5	Unavailable	3L: Other wildlife concerns	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: At this time WLD does not want to manage cedar this close to the lake.							
6	Available	2I: Survey needed	138	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 4

Year of Entry: 2019

8	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Great lakes marsh on one side and alvar on the other.							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand can hold another 10 years. It may be too wet to harvest though.							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Water ponded in this stand.							
11	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 4

Year of Entry: 2019

15	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5F: Evaluated for Forest Health Considerations	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Diameters are too small at this time to warrant a salvage							
18	Unavailable	3L: Other wildlife concerns	69	2B: Unknown if access through adjacent landowner(s) is possible	3J: Water quality / BMPs (stream, river, or lake)	3B: Threatened, endangered, and special concern species	Unspecified
Comments: This piece has a lot going on. There is a raptor nest along the river, a buffer that would have to be left if harvested and we are not sure the adjacent landowner would give us access to what.							
19	Unavailable	3A: Conservation Values incompatible with harvest at this time	8	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: This is a buffer left around the alvar occurrence. Will also work as long term retention.							
21	Available	2I: Survey needed	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Depending on how the survey goes the site condition may be switched to 3D if it turns out we own less than we thought on that side of the road.							

30	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	55	2E: Road needed	Unspecified	Unspecified	Unspecified
Comments: It would be possible to build road from the west out to this ridge but WLD would like to remain hands off at this time.							



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
	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	4
Comments Maxton Plains: Alvar and associated natural communities.				
	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	19
Comments Maxton Plains: Alvar and associated natural communities.				
	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	991
Comments First and Second Lakes flooding area.				
	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	10
Comments Maxton Plains: Alvar and associated natural communities.				
	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	1
Comments Maxton Plains: Alvar and associated natural communities.				
	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	4
Comments Maxton Plains: Alvar and associated natural communities.				
	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	3
Comments Maxton Plains: Alvar and associated natural communities.				
	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	3
Comments Maxton Plains: Alvar and associated natural communities.				
	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	5
Comments Maxton Plains: Alvar and associated natural communities.				
	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	4
Comments Maxton Plains: Alvar and associated natural communities.				
	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	2
Comments Maxton Plains: Alvar and associated natural communities.				



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
	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	1
Comments				
Maxton Plains: Alvar and associated natural communities.				
	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	102
Comments				
Maxton Plains: Alvar and associated natural communities.				
Drummond Island Shoreline Integrity Area	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	
Comments				
SCA is to identify federal interest area for protection of the coastal integrity and associated ecological and aesthetic values				
Drummond Island Shoreline Integrity Area	Habitat Areas or Corridors	Other Habitat Area	Proposed SCA	
Comments				
SCA is to identify federal interest area for protection of the coastal integrity and associated ecological and aesthetic values				



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	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6112 - Lowland Aspen	Sapling Well	4.1	28	Immature	DRIP 1. This is a pocket of lowland aspen that has regenerated very nicely. The next inventory it will most likely be pole size.
2	4134 - Aspen, Spruce/Fir	Sawtimber Well	6.2	91	111-140	Patch of timber that was left uncut. The west side of the road is more upland with a low spot on the east side of the road. Aspen is starting to decline.
3	4134 - Aspen, Spruce/Fir	Sapling Well	29.6	21	Immature	SALE 19-89. Aspen is doing great. Starting to get a decent amount of pole size trees mixed in but is still a sapling size stand.
4	42360 - Upland Cedar	Sawtimber Well	7.7	96	171-200	Stand is dominated by large cedar with aspen. Very open in the understory.
5	4134 - Aspen, Spruce/Fir	Sapling Well	35.3	21	Immature	SALE 19-89. Fairly clean cut with little retention. Aspen regen is about 3" in DBH and has a decent amount of poles mixed in. there is some wet ground on the west side of the stand.
6	4136 - Aspen, Mixed Conifer	Sapling Well	35.7	13	Immature	SALE 11-01, RETAINED APPROX 27 CEDAR SEED TREES PER ACRE WHERE PRESENT. Aspen regen is doing very well. Some low wet pockets in the stand. Currently saplings are 1-2" in DBH.
7	4134 - Aspen, Spruce/Fir	Sapling Well	31.4	26	Immature	SALE 19-89. For the most part this stand is on dry ground but there is some low spots. Aspen is now 2-3" with some pole size trees.
8	4134 - Aspen, Spruce/Fir	Sapling Well	41.0	15	Immature	SALE 11-01, CEDAR RETAINED WHERE PRESENT. Aspen is doing well and is 1-2" in DBH. Some scattered cedar retention.
9	4134 - Aspen, Spruce/Fir	Sapling Well	31.5	17	Immature	SALE 19-89. Mostly upland ground with a few patches of lowland. Pretty clean cut but there are some scattered retention trees. About a 2" average DBH but there are some pole size trees starting to show up but very few.
10	6111 - Lowland Balsam Poplar	Sapling Well	11.6	11	Immature	SALE 11-01 DRIP II. The north end of the stand is low with bam and tag alder, the middle is higher ground with quaking aspen, and the south gets low again with cedar retained during the harvest. Scattered cedar, white pine and ash.
11	4134 - Aspen, Spruce/Fir	Sapling Well	33.0	21	Immature	SALE 19-89. The saplings are 2-3" in DBH now and there are some pole size trees mixed in. There are some scattered retention trees but it was cut pretty clean.
13	4134 - Aspen, Spruce/Fir	Sapling Well	35.2	21	Immature	SALE 19-89. The aspen in this stand is 2-3" in DBH with a decent amount of pole size trees.
15	4134 - Aspen, Spruce/Fir	Sapling Well	23.5	19	Immature	SALE 19-89. Nice aspen regen with scattered retention of pole and log size trees. Starting to see a few pole size aspen mixed in but not many.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4134 - Aspen, Spruce/Fir	Sapling Well	37.3	13	Immature	SALE 11-01, RETAINED APPROX 27 CEDAR SEED TREES PER ACRE. Regen is doing well and is now 1-2" in DBH.
17	4134 - Aspen, Spruce/Fir	Sapling Well	42.3	19	Immature	SALE 19-89, CEDAR RETAINED. The north east corner of this stand gets into some wet ground. The regen is doing well and is 2-3" in dbh. There are some pole size trees mixed in.
18	4134 - Aspen, Spruce/Fir	Sapling Well	34.5	14	Immature	SALE 11-01, CEDAR RETAINED. Decent aspen regen with cedar retention scattered throughout the stand. 1-2" sapling size with no poles. Little more lowland than some of the surrounding stands.
19	4134 - Aspen, Spruce/Fir	Sapling Well	18.5	17	Immature	SALE 19-89. This stand transitions down to the lowland. It was pretty clean cut with little retention. A few scattered pole size trees starting to show up.
20	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	6.5	66	51-80	For the most part this stand is a lowland mix but it has a small patch of L in the middle. This stand is very wet and is a good spot to stay out of.
21	6112 - Lowland Aspen	Poletimber Well	27.3	92	81-110	This stand is currently under contract as part of the GEM of the Island Sale. It is low ground with BAM, black ash and cedar.
22	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	263.1	117	111-140	Stand contains large aspen and cedar. Along the flooding there is a strip of lowland ash and BAM before you hit the cedar edge. Some patches in this stand are heavier to aspen and could be managed but they are few and far between. Accessing them could be difficult. There are areas in the stand where the aspen has blown over and there is cedar with sapling size aspen. Lots of blowdown in this stand especially along the flooding edge.
23	6112 - Lowland Aspen	Sapling Well	8.9	28	Immature	SALE 19-89 DRIP, CEDAR RETAINED. Stand is almost large enough to move to the pole size class. There was a lot of standing water in this stand when inventoried. Mix of BAM and Q. Aspen.
24	6112 - Lowland Aspen	Poletimber Well	20.3	28	81-110	SALE 19-89 DRIP. Looks like there was some cedar left but most of it has blown over. Very nice stand of aspen that just barely makes pole size. The road into the stand has very little use and is grown in with tag alder.
25	4130 - Aspen	Sapling Well	35.5	28	Immature	SALE 19-89 DRIP. This stand is drier than stands to the south although the road through the stand is very wet and rutted. The road needs to be blocked better. Some cedar was left during the cut but most of it fell over. Really good aspen. Some low areas are holding water. Not quite pole size yet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	56.1	117	111-140	This stand was originally part of the bigger cedar stand to the east but it is an area that is heavier to aspen. I tried my best to pick it out on the air photo from the cedar dominated part but I would think stand lines will change after the red lines are ran. The north west corner of the stand is aspen dominated over thick balsam fir regen as you head east and south there is large cedar mixed in with the aspen. This stand was not part of the GEMS aspen rotation originally, but aspen-dominated areas in the stand are being treated and will offer additional acreage for the rotation in the future.
27	611 - Lowland Deciduous Forest	Poletimber Well	51.9	67	111-140	Lowland ash stand with some aspen mixed in.
29	4110 - Sugar Maple Association	Sawtimber Well	22.0	97	111-140	This is a high ridge of large diameter hardwoods. There are some vernal ponds on top of the hill along the east edge. Scattered cedar in the stand. Most regen is sugar maple or ironwood. This stand has not seen a saw in a long time.
30	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	33.2	77	111-140	This stand is situated on the side of a slope. About half way down the slope the understory of conifer picks up including cedar regeneration. There is elm, ash and red maple along the marsh. Pockets of paper birch and white spruce but for the most part it is a good mix.
31	42290 - Natural Mixed Pine	Sawtimber Medium	1.7	69	51-80	Finger of red pine and spruce in the alvar. The pine does not seem to be doing so well as some of it has died and the needles look thin on what is still alive. Seems to be converting to a aspen, spruce/fir mix.
32	4134 - Aspen, Spruce/Fir	Sawtimber Well	82.1	97	111-140	This is a stand of mature aspen over spruce/fir. Pockets of red pine exist in the stand. Thick understory of spruce and fir. The ground is a little odd in this location seems upland for the most part but there were areas of water on the surface but it might go away as spring progresses.
35	4136 - Aspen, Mixed Conifer	Sapling Well	37.9	12	Immature	SALLE 11-01, CEDAR RETAINED. Stand gets lower as you head north and east. Regen is doing well but is still quite small.
36	4136 - Aspen, Mixed Conifer	Poletimber Well	51.9	92	111-140	This stand is currently under contract as part of the GEM of the Island sale. stand is dominated by aspen, bam and cedar.
37	4135 - Aspen, Cedar	Poletimber Well	25.0	92	111-140	This stand is under contract as part of the GEM of the Island sale. It is dominated by quaking aspen and cedar.
38	6112 - Lowland Aspen	Sapling Well	40.4	9	Immature	SALE 11-01, RETAINED APPROX 27 CEDAR SEED TREES PER ACRE AND PINE. The south half of this stand was cut before the north. The southern portion is a bit more wet.
39	6112 - Lowland Aspen	Sawtimber Well	29.2	74	81-110	Walked into the north portion of this stand And it was an aspen/cedar mix further to the south it has pockets of ash. The stand was very wet and I was falling through ice.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
40	6120 - Lowland Cedar	Sawtimber Medium	33.2	103	111-140	MOSTLY CEDAR WITH SCATTERED WOLFY ASPEN, BAM AND WHITE BIRCH LOGS. Pockets of aspen regen and ash regen. Aspen and BAM are very large and are falling out of the stand.
41	4319 - Mixed Upland Forest	Poletimber Well	30.6	74	81-110	Stand was left uncut in the past. It is part of the Alvar SCA. Some more open ground to the south dominated by spruce. More aspen to the north.
42	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	36.2	59	81-110	This stand is a conglomerate of stands. There are areas of alvar that have grown in with spruce with juniper. There is a small patch of ash swamp to the east along the road. There are two patches of sapling size BAM and aspen. The rest is an aspen spruce fir mix with bigtooth along the road.
43	6115 - Lowland Ash	Poletimber Well	84.3	73	51-80	OPIC - FMD: BLACK ASH SWAMP, WITH SCATTERED BALM AND WHITE SPRUCE, VERY WET.
44	4319 - Mixed Upland Forest	Poletimber Well	189.9	61	81-110	Stand is mostly smaller dbh aspen and spruce. There are pockets of A9 with really large aspen, red maple and ash. One large area like this can be found in the southeast corner along the private. Some of these areas could be targeted to break up age classes. It looks like SBW took a toll on this stand at one time but there is little sign now.
45	6112 - Lowland Aspen	Sapling Well	39.8	11	Immature	SALE 11-01 DRIP II, RETAINED APPROX 27 CEDAR SEED TREES PER ACRE. Road through the stand is being used and is very wet and rutted. Lots of cedar left during the harvest but the regen is still very good.
46	4319 - Mixed Upland Forest	Poletimber Medium	31.9	74	81-110	This stand was split off the larger aspen stand to the south. it has smaller diameters and more open canopy. The older aspen may have already fallen out of this portion of the stand. There is some log size aspen and patches of aspen saplings. The east edge of the stand along the alvar is mostly spruce saplings. The west side is wet with ash. Some wet areas throughout this stand.
47	4319 - Mixed Upland Forest	Poletimber Poor	9.6	43	1-50	This stand is an open mix of aspen and spruce/fir. looks like an opening that is slowly converting. Trees are of low quality and form. Patches of juniper in the understory.
50	6112 - Lowland Aspen	Sapling Well	12.8	28	51-80	DRIP 1, scattered mature trees left. Stand is pretty wet especially along the road and through the center. In these areas the regeneration is poor and is dominated by willow. In other areas the aspen regent is doing well and is almost to a pole size class.
52	4134 - Aspen, Spruce/Fir	Sapling Medium	8.1	16		DRIP 2, second age is residual Red Pine knob left in stand, subcanopy is mainly under red pine. Regen is not doing great in the south west portion of the stand, mostly shrub species. Pole size retention along the road.
53	4134 - Aspen, Spruce/Fir	Sapling Well	14.1	28	Immature	DRIP 1, west side gets wet and lower



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
54	4134 - Aspen, Spruce/Fir	Sawtimber Well	9.2	108	81-110	The west 1/4 of the stand is wet with little in the sub canopy besides dogwood. The rest is more upland with large quaking aspen with fir and spruce in the underscore. Aspen is old and starting to fall out of the stand.
55	4319 - Mixed Upland Forest	Poletimber Well	70.4	106	51-80	Stand is a mix of mostly dry ground with some wet. Patches of sapling and some areas of log. Lots of conifer in understory and not very dense canopy in some areas.
59	4134 - Aspen, Spruce/Fir	Sawtimber Well	27.7	91	111-140	The north end of the stand is very nice aspen with little in the understory compared to the south end of the stand which is scattered aspen with thick conifer regen. The aspen is super mature and ready to be managed. This stand was not part of the GEMS aspen rotation originally, but aspen was found to be dominant during inventory and needs to be treated to maintain the aspen habitat and prevent a type conversion. The result will offer additional acreage for the rotation in the future.
60	4134 - Aspen, Spruce/Fir	Sapling Well	118.6	9	Immature	Cut in 2009 as part of DRIP II. Regeneration is doing well. One of the few areas that has bigtooth aspen. This was not a very clean cut and there is a lot of scattered retention of log and pole size cedar, pine, aspen and spruce.
61	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	43.6	98	111-140	Took a look at the east end of this stand. It is very wet and has water ponded throughout the stand. Mix of pole size BAM and Black ash. Some areas of tag alder but over all fairly open in the understory.
62	6111 - Lowland Balsam Poplar	Poletimber Well	4.0	79	111-140	Wet area that was not cut. Mix of bam and black ash.
63	6132 - Mixed Lowland Forest with Cedar	Sapling Well	17.7	9	Immature	DRIP 2, cut in 2009. Aspen regen is fully stocked with strips of cedar retention.
64	4136 - Aspen, Mixed Conifer	Poletimber Well	27.3	98	Unspecified	DRIP 2, same as 95
65	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	24.0	108	Unspecified	data estimated from OI
66	6120 - Lowland Cedar	Poletimber Well	3.8	108	Unspecified	looks similar to 36
67	6115 - Lowland Ash	Sapling Medium	3.5	25	Immature	This is a wet ash swale along the road. Most of the pole size ash is close to being dead. Looks like they may have cut through this wet spot in the past.
68	6120 - Lowland Cedar	Poletimber Well	11.7	108	Unspecified	looks similar to 36
70	4134 - Aspen, Spruce/Fir	Sapling Well	276.6	26	Immature	several units of DRIP 1 combined , snow trail in stand, some cedar retained. Decent amount of pole size trees mixed in these stands. Several wet areas throughout the stand. The areas to the south are in general wetter than to the north and have more BAM.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
71	6111 - Lowland Balsam Poplar	Sawtimber Well	169.8	111	111-140	This stand is currently under contract GEM of the Island. Variable from scattered aspen over fir to a closed canopy of aspen, spruce, and cedar.
73	4136 - Aspen, Mixed Conifer	Sapling Well	19.3	26	Unspecified	DRIP 1, same as 12
74	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	7.2	91	Unspecified	looks same as 87
78	6111 - Lowland Balsam Poplar	Poletimber Well	48.4	111	Unspecified	
79	6112 - Lowland Aspen	Poletimber Medium	20.6	61	81-110	Scattered log and pole aspen with black ash and aspen understory. Looks very wet.
82	6119 - Mixed Lowland Deciduous Forest	Poletimber Well	35.5	51	111-140	Ash swale with aspen/BAM along the edges. Smaller DBH along the wetland edge to the south.
83	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	24.9	91	Unspecified	Stand is similar to others in the area. Mix of aspen cedar and spruce. I only saw the south part of the stand. the ground was operable but it was very thick with fir and spruce saplings.
84	4319 - Mixed Upland Forest	Sawtimber Well	22.1	91	81-110	Aspen, spruce and cedar over thick conifer. About half way up the snowmobile trail the stand becomes more lowland. Need to be managed soon in order to regenerate aspen.
85	6112 - Lowland Aspen	Sawtimber Poor	14.5	91	1-50	Canopy of mostly scattered aspen and spruce over top of very thick spruce and cedar saplings. Fairly wet for the most part but operable.
86	6112 - Lowland Aspen	Sapling Well	37.5	28	Immature	Old stand notes indicate that this stand was cut but I am not so sure. It is very wet and dominated by sapling size ash and aspen. Scattered pole size trees of all species can be found throughout the stand.
87	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	37.2	91	81-110	This stand is similar to the stand to the southwest but is much lower, has more cedar, and a lot of the aspen has already fallen out of the stand. Canopy is dominated by large aspen with thick conifer in the understory, patches of cedar and low spots with black ash. This stand was not part of the GEMS aspen rotation originally, but aspen-dominated areas in the stand are being considered for treatment to maintain the aspen habitat present in part of the stand and prevent a type conversion. A treatment here is expected to offer additional acreage for the rotation in the future.
88	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	4.8	91	Unspecified	possible trespass, camper, blind, and field., needs line work and/or survey.
89	42390 - Mixed Non-Pine Upland Conifers	Poletimber Medium	121.8	90	51-80	good cedar regen. The aspen should be managed but its so sparse there wouldn't be much volume and the regent would most likely be spotty. Very thick underscore.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
91	4134 - Aspen, Spruce/Fir	Sapling Well	22.4	25	Immature	Was not as clean of a cut adjacent to the parking area. Lots of cedar and spruce poles left.
92	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	142.5	102	81-110	Ash swamp. Lots of standing water. Where I was in the middle of the stand it was almost pure ash. At the south end it was more mixed with spruce and red maple. It looks like the same thing happens up to the north. Seems like the wettest of the wet is ash and it gets more mixed as it dries up.
93	4134 - Aspen, Spruce/Fir	Sapling Well	27.7	15	Immature	DRIP 2. Regen is doing very well. mostly upland but some wet ground. Scattered retention of cedar ash and aspen.
94	4134 - Aspen, Spruce/Fir	Sapling Well	70.7	15	Immature	DRIP 2. Regen is a mix of aspen and BAM and is doing well. Decent amount of cedar retained along with scattered pole size spruce and aspen.
95	6115 - Lowland Ash	Poletimber Well	14.5	41	51-80	Stand is very wet with a lot of ponded water. May have been cut. Mostly black ash with red maple birch and aspen and cedar along the edge.
96	4134 - Aspen, Spruce/Fir	Sapling Medium	25.7	15	Immature	DRIP 2. Regen in the southern patch is doing better than the north. Seems to be pretty rock soil in this stand. This stand had some shrub planting done by the school.
97	4134 - Aspen, Spruce/Fir	Sapling Well	33.4	26	Immature	DRIP 1, snow trail in stand, some cedar retained. Very few pole size trees. Adjust boundary. Wet Alvar like area in the middle with cedar and spruce.
98	6111 - Lowland Balsam Poplar	Poletimber Well	16.9	71	111-140	This is wet ground with a mix of ash and BAM. There is some quaking aspen mixed in as you get towards the drier edges. Fairly open in the understory. Some areas of P type and others of E type.
100	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	7.3	90	81-110	South of the road is manageable with few cedar. North of the road primarily cedar. Not huge wood but could be cut.
101	6112 - Lowland Aspen	Sapling Well	20.7	25	Immature	Very low wet ground. I am guessing that it is 24 years old based on the size of the trees compared to adjacent stand. Evidence of old cutting. Wettest along the south boundary.
102	4134 - Aspen, Spruce/Fir	Sapling Well	17.8	15	Immature	DRIP 2. Nice aspen stand with some cedar retention especially along the southern border.
103	4135 - Aspen, Cedar	Sapling Well	39.3	26	Immature	DRIP 1. This was not as clean of a cut as stand 109 to the northwest. There is a decent amount of retention of cedar, maple, spruce, white pine and some aspen.
104	6111 - Lowland Balsam Poplar	Poletimber Well	23.0	71		This is a wet stand in the wettest areas there is ponded water and ash saplings. Most of the canopy is pole to log size BAM. There is potential for aspen management in this stand but we would need it frozen or very dry.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
105	6120 - Lowland Cedar	Poletimber Well	5.5	111	Unspecified	
106	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	10.5	97	Unspecified	no access, estimates from OI data
107	6112 - Lowland Aspen	Poletimber Well	6.4	97	Unspecified	no access, estimates from OI data
108	4319 - Mixed Upland Forest	Sawtimber Well	13.7	87	111-140	This stand is mostly mature timber but there are a few locations where it was picked over during the DRIP project. Evidence of old cutting and skid trails, good regen in these areas. The stand sits on a rocky, north facing slope which is why it may have been left last time. For the most part it is log size aspen and cedar with a patch of merchantable pole size aspen in the middle.
109	4134 - Aspen, Spruce/Fir	Sapling Well	31.9	26	Immature	DRIP 1, some cedar retained. Larger diameter trees than stand to the west. Good mix of sapling and poles. Most likely pole size next time around. Stand gets a little lower and wetter to the north along the private
110	4134 - Aspen, Spruce/Fir	Sapling Well	59.2	15	Immature	DRIP 2, snow trail in stand, cedar poles from reserve trees. Smaller trees than stand 109 to the east. Scattered retention of cedar, spruce, white pine, and aspen. The north edge has been softened by the amount of cedar retention and areas they did not operate on the slope.
111	4134 - Aspen, Spruce/Fir	Sawtimber Well	17.5	91	111-140	Mature aspen stand that was left as a buffer along the road during the DRIP project. It would be good to get a survey on the portion of the stand on the east side of the road to figure out where our ownership is and how many drives are located on state land.
112	4134 - Aspen, Spruce/Fir	Sapling Well	16.5	26	Immature	DRIP 1, some cedar retained, snow trail in stand. Some scattered pole size spruce. Going to be a while before it is ready.
113	4134 - Aspen, Spruce/Fir	Sapling Well	25.6	27	Immature	DRIP 1. Mostly aspen regen, there is spruce and fir mixed in especially out near the road. Possibly pole size next time around.
115	6121 - Tamarack	Poletimber Well	8.4	60	111-140	Mostly tamarack with a small dry ridge with aspen, spruce and juniper.
116	4134 - Aspen, Spruce/Fir	Sawtimber Well	30.5	88	111-140	Looks like an area they did not harvest during the DRIP project. There are some old stumps in the stand so it may have been picked over a little bit. Aspen on dry ground transitions into lower wet ground as you head to the east. Then it becomes a mix of aspen, ash and tag alder.
117	42360 - Upland Cedar	Poletimber Well	20.4	89	111-140	Stand is patch in areas. Some closed canopy cedar with no understory and other areas of open canopy and thick fir.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
119	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	5.4	89	141-170	Island out in the marsh the is mostly cedar with aspen. There is smaller BAM and tag alder around the edges of the stand.
121	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	2.5	81	141-170	Island in the marsh dominated by cedar and paper birch. Some smaller tag alder and BAM along the edges.
122	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	8.8	102	81-110	Ash swamp. Lots of standing water. Where I was in the middle of the stand it was almost pure ash. At the south end it was more mixed with spruce and red maple. It looks like the same thing happens up to the north. Seems like the wettest of the wet is ash and it gets more mixed as it dries up.
123	4130 - Aspen	Poletimber Medium	3.8	58	51-80	This stand seems to be filling in an opening. Mostly aspen with a patch of cedar along the north line. Small wet area along the north line. There are a few old two tracks from the old campground.
127	4134 - Aspen, Spruce/Fir	Sapling Well	11.7	17	Immature	SALE 19-89. Regen is doing well. 2" average DBH. Plenty of retention scattered in the stand. Lots of shrub species in the understory.
128	4134 - Aspen, Spruce/Fir	Sawtimber Well	3.9	91	111-140	Small patch of mature timber. One of the few places that there is big tooth aspen in this compartment.
129	6112 - Lowland Aspen	Poletimber Well	8.4	81	111-140	I am guessing that this stand was too wet to harvest when the cut the adjacent sale. Timber is a little bit bigger at the south end and has less ash than along the trail to the north.
130	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	6.5	91	141-170	This stand is on the transition between lowland and upland. East of the trail it is dominated by cedar mixed with BAM, West of the trail it is much more mixed with less of a cedar component.
131	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Well	9.5	98	111-140	This stand sits on a slope that goes down to the northwest. Dominated by large aspen and cedar. There is a patch of dense cedar along the trail running down the hill. Most of it looks to be mixed and operable.
132	4319 - Mixed Upland Forest	Poletimber Well	6.7	59	81-110	This area was never cut, I assume it was a buffer along the alvar in places and retention around the old cabin. About half of the stand has the appearance of alvar that has filled in with spruce and aspen. Near the cabin it is a more typical aspen stand.
403	42320 - Upland Spruce	Sapling Poor	2.8	31	Immature	ALVAR, FILLING IN WITH SPRUCE, BALSAM FIR AND ASPEN. SCATTERED LOG SIZE RED PINE THROUGHOUT. GROUND COVER INCLUDES JUNIPER AND GRASSES



Stand	Cover Type	Acres	Managed Site	General Comments:
14	6239 - Mixed Emergent Wetland	453.4	No	ENTIRE MARSH, USUALLY FLOODED 6 TO 18 INCHES OF WATER, MANY STUMPS, PART OF THE FLOODING COMPLEX, SCA. Edges near the woods are more of a wet meadow with willow, cattails and Phrag.
28	310 - Herbaceous Openland	1.3	No	Alvar opening with some spruce growing in along the edges. Mostly grass.
33	500 - Water	215.4	No	OPIC - FMD: THE PART OF SECOND LAKE FLOODING COMPLEX IN COMPARTMENT 4, SCA
34	622 - Lowland Shrub	333.5	No	PART OF THE FLOODING COMPLEX, SCA. Stand was typed as a C4 last time but it is more of a shrub stand with standing dead cedar with a bit of cedar regen scattered throughout. There is more cedar along the "woods" edge.
49	6239 - Mixed Emergent Wetland	30.2	No	Beaver ponds and alder/willow.
51	330 - Low-Density Trees	5.7	No	Alvaro. Scattered aspen spruce and pine trees with juniper.
56	330 - Low-Density Trees	1.9	No	Opening with scattered trees. Mostly BAM and spruce with grass under it.
57	320 - Upland Shrub	3.9	No	Scattered spruce/aspen with thick juniper covering the ground.
58	310 - Herbaceous Openland	10.7	No	alvar
69	3302 - Low Density Conifer Trees	4.3	No	Low density spruce and juniper
72	6229 - Mixed lowland shrub	2.5	No	Old inventory says there is a non forested stand here. It appears very wet in the image. I would guess there is quite a bit of ash saplings in the stand along with tag alder.
75	6239 - Mixed Emergent Wetland	51.0	No	
76	500 - Water	19.3	No	
77	6239 - Mixed Emergent Wetland	29.1	No	
80	122 - Road/Parking Lot	2.7	No	Parking area for accessing the flooding.
81	6220 - Alder/willow	15.7	No	
90	122 - Road/Parking Lot	10.2	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
99	310 - Herbaceous Openland	1.9	No	Grassy opening that contains the GEM parking area.
114	6239 - Mixed Emergent Wetland	118.4	No	Great Lakes Marsh, looks like there were some pods dug in this stand at one point.
118	310 - Herbaceous Openland	6.4	No	Ground cover is mostly juniper with scattered cedar, aspen and spruce trees.
120	310 - Herbaceous Openland	1.1	No	Alvar opening.
124	330 - Low-Density Trees	17.0	No	Scattered ash, elm, aspen and spruce with juniper and other shrubs. Wetland along the edge of the bay.
125	6220 - Alder/willow	3.9	No	Stand is a L with scattered ash, cedar, spruce and fir
126	310 - Herbaceous Openland	9.5	No	Open alvar with scattered trees and juniper
400	310 - Herbaceous Openland	14.5	No	ALVAR, ERA. Patch of spruce within this stand.
401	3302 - Low Density Conifer Trees	42.0	No	This portion of the alvar is filling in with mostly spruce and some aspen.
402	3302 - Low Density Conifer Trees	1.1	No	OPIC - FMD: ALVAR, FILLING IN WITH ASPEN AND SPRUCE, ERA
404	310 - Herbaceous Openland	10.1	No	ALVAR, WHITE SPRUCE AROUND THE EDGES, GROUND COVER INCLUDES JUNIPER AND GRASSES, EAST SIDE OF THIS AREA IS ON PRIVATE LAND, ROAD ON PRIVATE LAND LEADS TO STATE LAND AT THE SOUTH EDGE OF STAND.
405	310 - Herbaceous Openland	4.2	No	OPIC - FMD: ALVAR, WHITE SPRUCE AROUND THE EDGES, GROUND COVER INCLUDES JUNIPER AND GRASSES, WET AND MARSHY IN PLACES, ERA