Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45200
Entry Year 2027
Acreage: 3,521
County: Mackinac
Management Area: St. Ignace Lake Plain

Stand Examiner: Nate Plato

Legal Description:

T41N-R11W Sections 5 - 9, Newton Township; T41N-R12W Sections 1 - 8, Newton Township; & T42N-R12W Sections 33 & 34, Newton Township

Identified Planning Goals:

The location of this compartment runs along the Lake Michigan shoreline from S. Gould City Road west to the Schoolcraft County line. The compartment has been managed over the years as a Natural Area. Although not legally dedicated, it is protected by local management to preserve its natural value. The website on Natural Areas has this to say about the area: "This area has all the characteristic and significant features of northern Great Lakes shores: dunes, interdunal wetland, cobble beach, Great Lakes endemic plants, and rare shorebirds. The interdunal swales are among the longest known and a good example of this uncommon community (fewer than 50 good sites anywhere) which is restricted to the shores of the Great Lakes. This is one of the longest stretches of Lake Michigan shoreline not bounded by roads and cottages, an example of Great Lakes shoreline mostly as it was at the time of European settlement." This entry there will be about 100 acres of northern hardwoods being managed via single tree selection. This treatment is in the northern part of the compartment and outside of the dune and swale complex.

Soil and topography:

This compartment follows the Lake Michigan shoreline for approximately 10 miles. Inland, it goes as far as the old Lake Nipissing shoreline. It is a dramatic bluff in most areas. Soils associated with the bluff line and following it in a narrow band are primarily: Pullup fine sand (rolling to steep areas on dunes, beach ridges and bars), Springlake loamy coarse sand (rolling to steep areas on outwash plains, ground moraines, and beach ridges), and Guardlake fine sandy loam (gently rolling to rolling to steep areas on outwash plains). Other minor components along this narrow bluff line are: Kalkaska sand (rolling to steep areas on outwash plains and ground moraines), Greylock fine sandy loam (very steep areas on ground moraines, end moraines, and drumlins), and Battydoe fine sandy loam (rolling to steep areas on ground moraines and drumlins). However, the overwhelmingly predominant soils within this compartment are Eastport-Leafriver complex, encompassing the dune-swale complex; and Leafriver-Croswell-Wainola complex, encompassing the similar swale-ridge complex along Lake Michigan. Esau-Zela complex follows the ridge-swale complex on beach ridges, and is found in a narrow band along the Lake Michigan shoreline from Hughes Point to Seiner's Point; at Birch Point, and Scott Point. Small inclusions of Alpena gravelly loam, Ensign fine sandy loam and Eastport sand are located along the lakeshore just west of Scott Point. These landforms are described as nearly level to rolling areas on glacial lake beach ridges; nearly level areas on bedrock-controlled ground moraines and glacial lake benches; and nearly level to rolling areas on dunes and beach ridges. The hardwood west of S. Gould City Road is typed as Guardlake fine sandy loam (nearly level and undulating areas on outwash plains), with a small amount of Spot-Finch complex alongside some ponds.

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

State lands abut to the north. These are above the old Lake Nipissing bluff are fairly accessible. There are two private in-holdings within the compartment. One of them is by Birch Point. There are several small tracts here, with several seasonal cabins. The other private parcel is located along the S. Gould City Road. Norton-Oglebay Limestone Company is adjacent to the west. While parts of their land are actively mined for limestone, directly adjacent is still timberlands but their main thoroughfare to Port Inland is just into Schoolcraft County. Lake Michigan is the southern boundary for this compartment.

Unique Natural Features:

With the lakeshore influences, there is potential for, and are, several rare, threatened and endangered plant and animal species and communities. Many areas along the lakeshore are now considered ERA's (ecological reference areas). The compartment contains Seiner's Marsh, several named points in Lake Michigan (Hughes Point, Seiner's Point, Birch Point and Scott Point), several named creeks (Seiner's Creek, Swan Creek, Peterson Creek and Hudson Creek) and unnamed creeks, Island Lake and a couple small unnamed lakes, plus miles of sand or cobble beach.

Archeological, Historical, and Cultural Features:

There is an archeological site listed on the National Register of Historic Places and the State Register of Historic Sites. It has been the site of archeological surveys from 1960-62 and 1979-80.

Special Management Designations or Considerations:

The whole compartment is being managed as a Natural Area. Attempts have been made to stop ORV's from riding along the beach shoreline.

Watershed and Fisheries Considerations:

This compartment contains Seiners Creek, Swan Creek, and Peterson Creek. This compartment also borders the northern shore of Lake Michigan. Seiners Creek, Swan Creek, and Peterson Creek are all non-designated streams less than 50-ft wide that have predicted mean July water temperatures that range from 57.6 to 60.6°F (cold streams). 100-ft, plus 5 feet per 1% increase in slope, buffers are recommended for Seiners Creek, Swan Creek, and Paterson Creek to protect these resources in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is in the St. Ignace Lake Plain Management Area where featured wildlife species include American marten, American woodcock, black bear, blackburnian warbler, black-throated blue warbler, ruffed grouse, sharp-tailed grouse, snowshoe hare, and white-tailed deer. Conifer dominates this compartment with a major component of cedar, fir, white pine, and hemlock. The compartment is part of a wooded dune and swale complex adjacent to Lake Michigan which is also an ERA, and the compartment is part of a deer wintering complex. The majority of the compartment including the wooded dune and swale complex will be left, which will provide un-fragmented forest critical to migratory songbirds including blackburnian warbler as well as many other species like marten and bear, and it will maintain the conifer cover for wintering deer. A hardwood thinning may occur in the northeast corner of the compartment; the stand is a continuation of the hardwood stand to the north, and any sensitive areas will be left. Shoreline areas will also be left to protect the habitat for shoreline species. However, invasive species control may take place where necessary to maintain the natural habitat.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for economic production of metallic minerals in this area. No active sand & gravel operations are known to exist in the area. Potential for any sand & gravel development within the compartment appears to be limited. Bedrock is near the surface across much of the compartment and surrounding area. Port Inland and Carmeuse's southern quarry operations are immediately west of the compartment. In addition, historically, extensive exploration (test drilling) for high-purity dolomite was completed by Bethlehem Steel just north the compartment. While valuable dolomite resources may exist within/beneath the compartment, potential for economic development of these resources is unlikely in the near future. Development of a new quarry and associated infrastructure would not be economical at this time. The State does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

The only vehicle access within the compartment is via Birch Point Road. While this is a DNR road, it does access the private cabins at Birch Point. The private landowners have helped improve the road at various times. S. Gould City Road runs along the east edge. A couple of two-tracks access the hardwood stand off S. Gould City Road and lead to the small lake areas. An old beach road used to follow the shoreline west of S. Gould City Road. This was the only access to the private parcels by Birch Point for many years. It is now gated at S. Gould City Road, and is not very discernible anymore.

Survey Needs:

None

Recreational Facilities and Opportunities:

Opportunities for bird watching, viewing Lake Michigan shoreline endemic flora, and hiking the undeveloped sandy and cobblestone beaches abound for those wishing to get away from it all. Hunting, photography, studying nature, and scenic views are also available options. Camping and picnicking is available Newton Township Park, located at the end of S. Gould City Road.

Fire Protection:

Due to the isolated nature of the shoreline, there is little potential for human caused fires. The short stretch of cabins by Birch Point harbors some potential for wildfires due to the human influences and development. Lightning strikes probably have occurred within the compartment, but have burned themselves out before being detected. The interspersing of the lowland swales probably help deter any small fires from becoming larger ones. Access to any wildfires would be difficult over much of the compartment, and a plan should be made to consider minimal impact suppression tactics if needed.

Additional Compartment Information:

A Forest Treatment Proposal (FTP) has been approved to treat invasive phragmites along the Lake Michigan shoreline. Treatments as per work instructions and FTP may occur along the shoreline as necessary to eliminate the colonizing invasive phragmites.

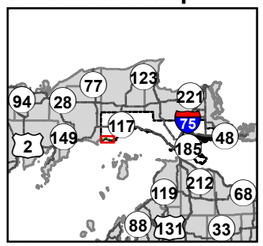
The following reports from the Inventory are attached:

- **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



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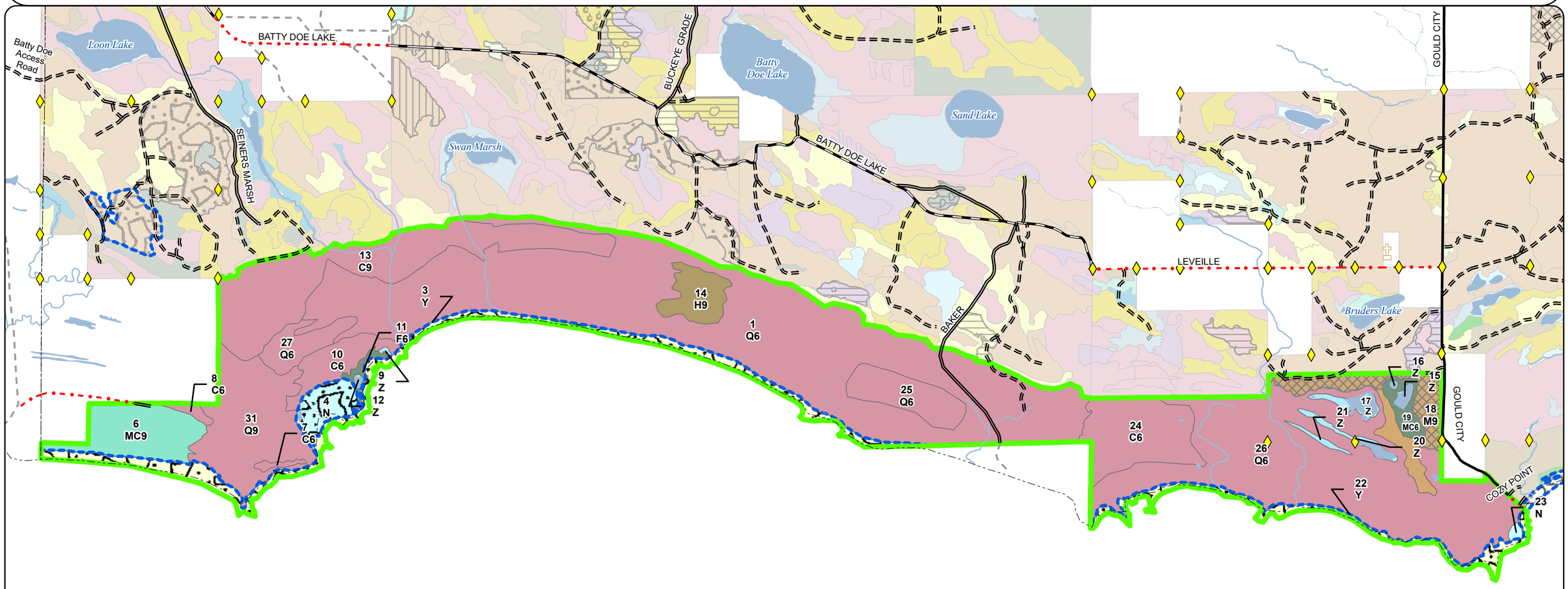
T42N, R12W, Sec: 32-34
T41N, R11W, Sec: 5-9
County: Mackinac
Unit: Sault Ste. Marie
Mgmt. Area: St. Ignace Lake Plain
YOE: 2027
Acres: 3,521 GIS Calculated
Examiner: Nate Plato
Date Exported: 7/18/2025
Map Phase: Web Post

0 0.5 1 2 Miles

- Survey Grade Corners
- Berms
- Cemetery
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Selection
- Monitoring
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 612 - Lowland Coniferous Forest
- 623 - Emergent Wetland
- 710 - Sand, Soil



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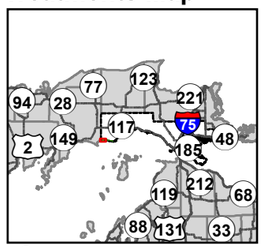

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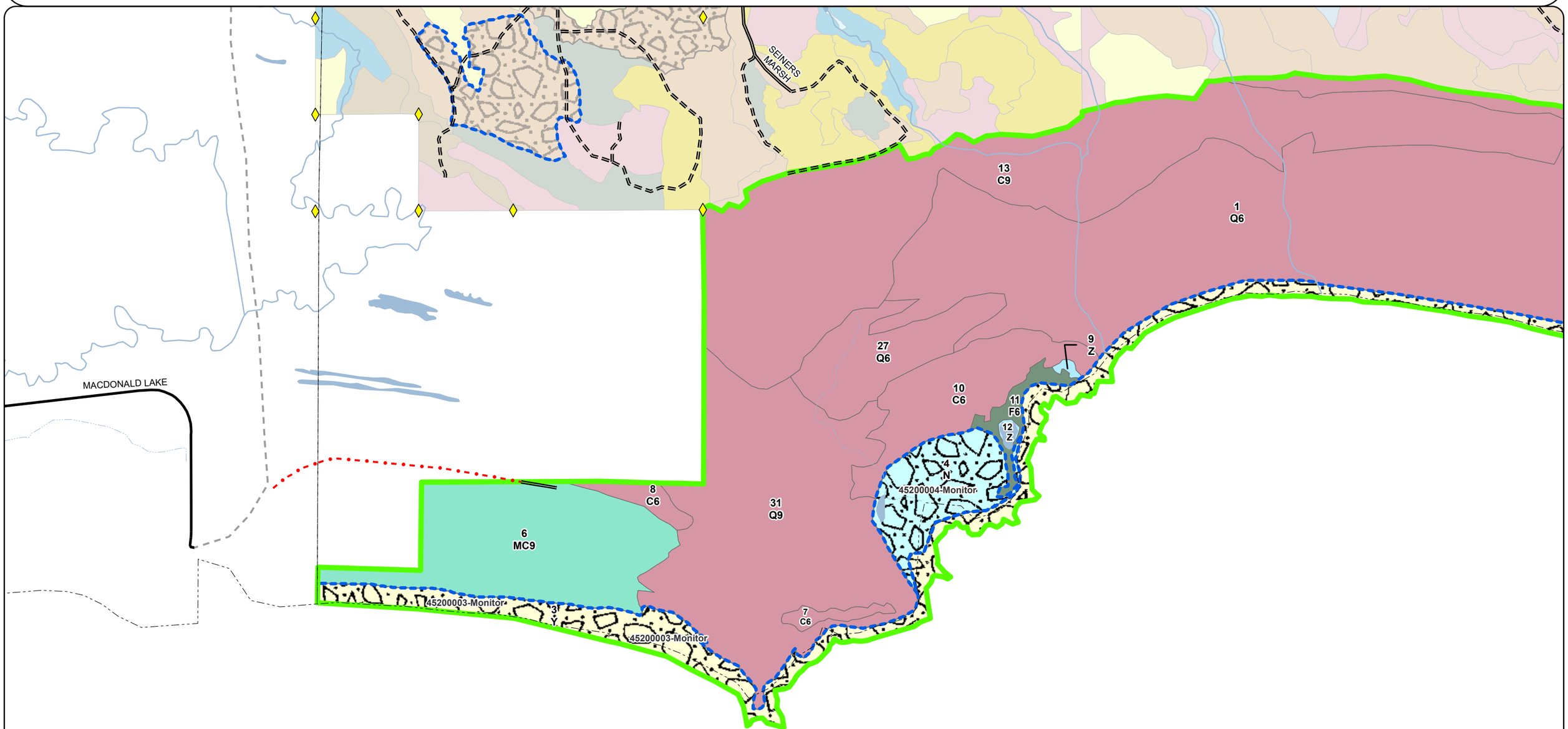

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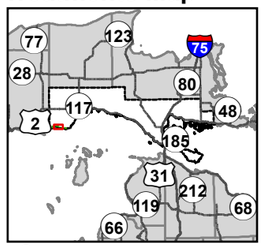

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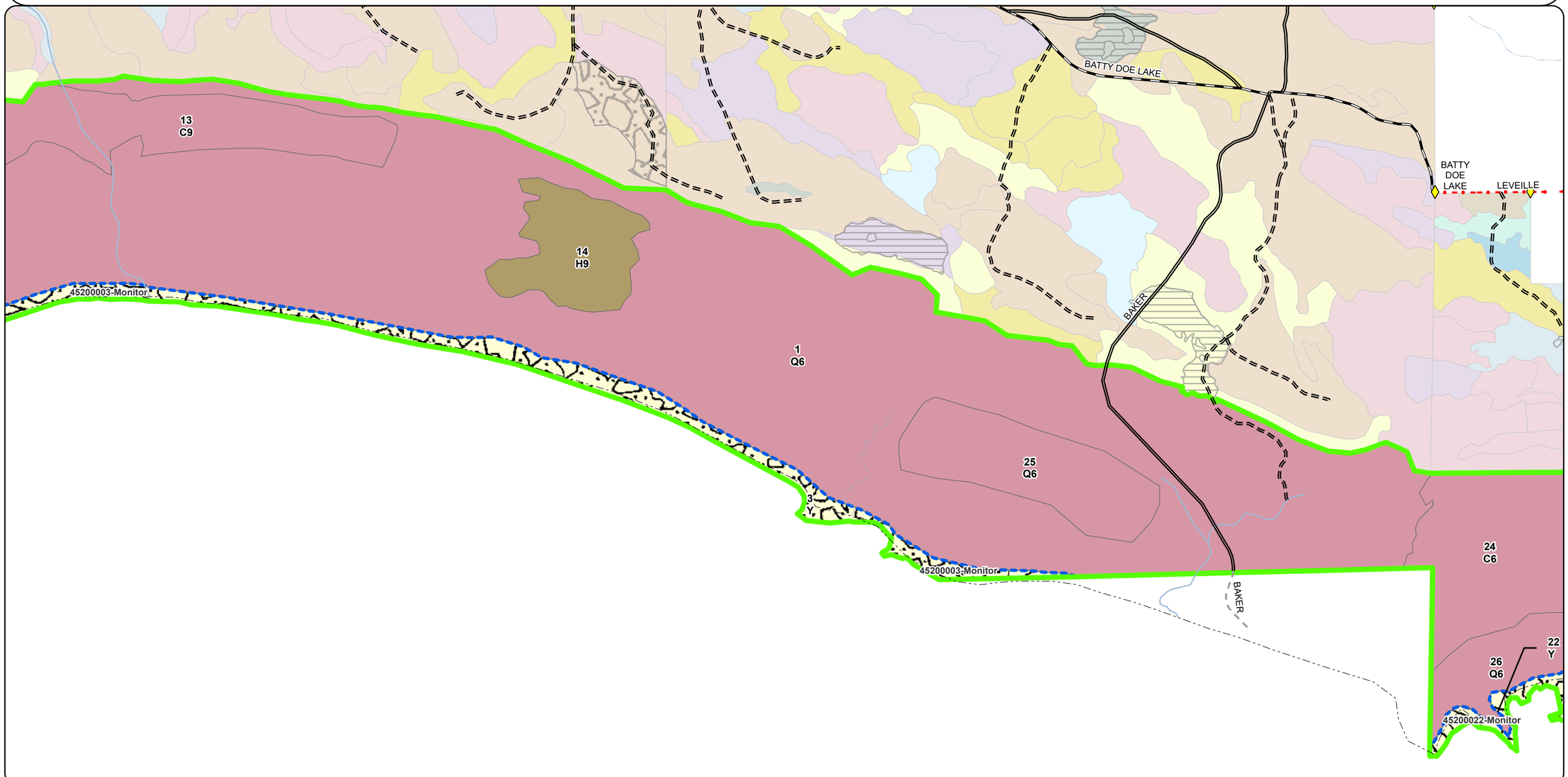

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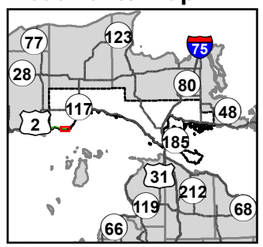

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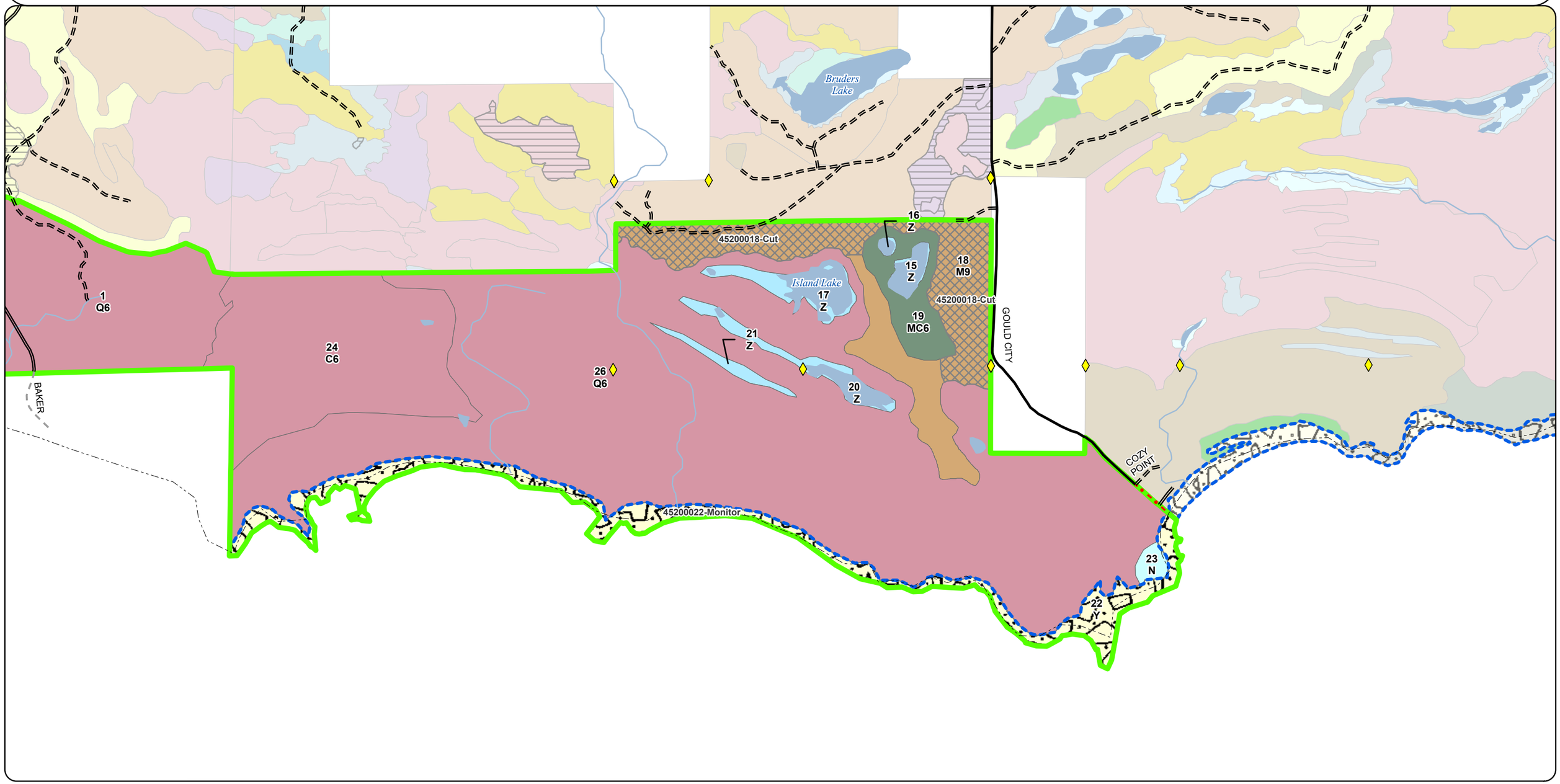

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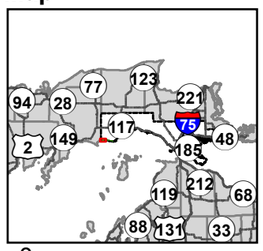

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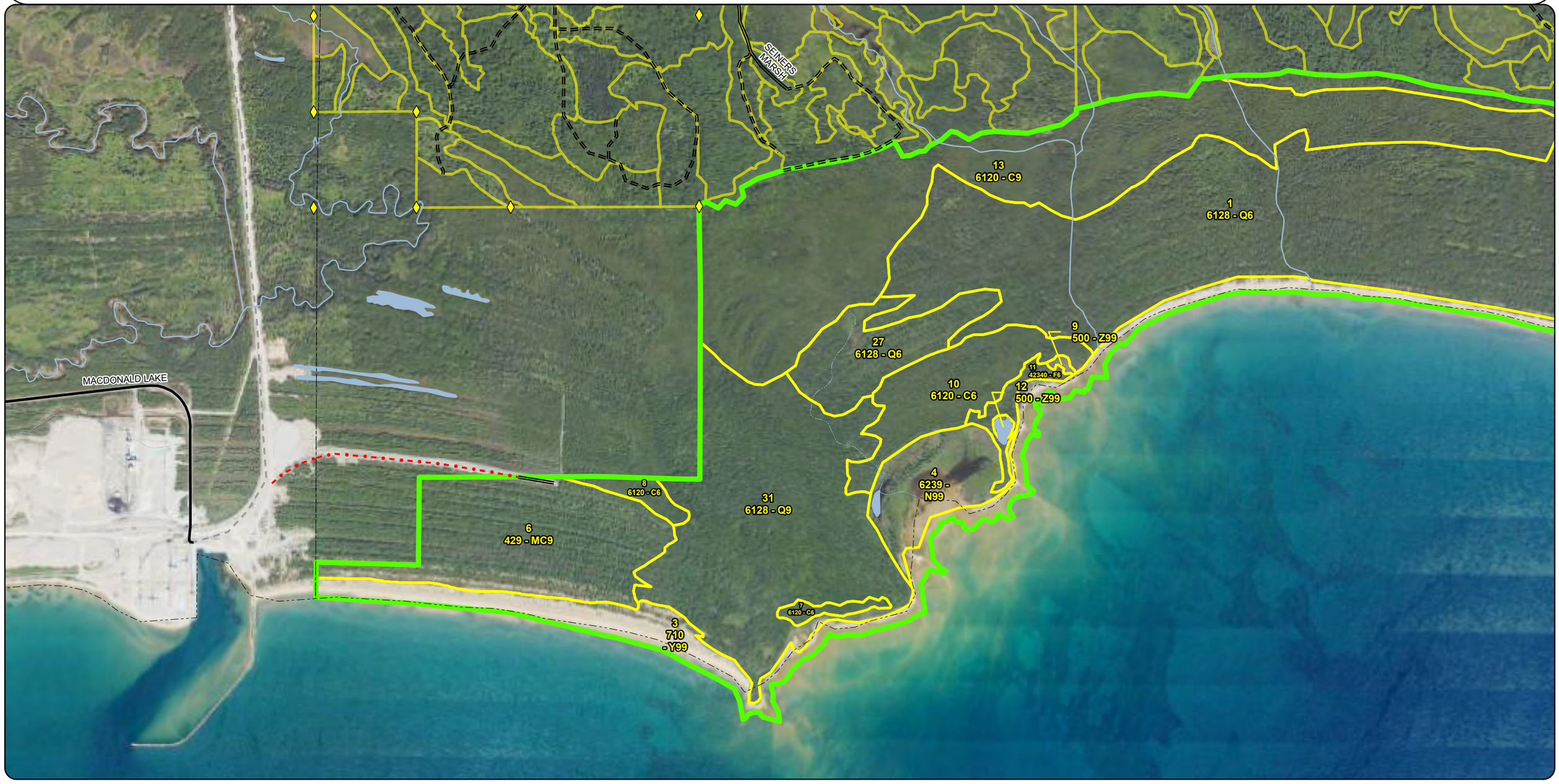

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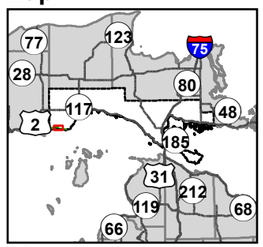

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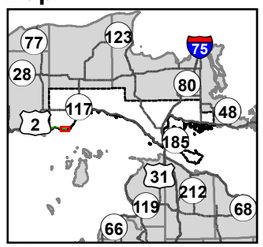

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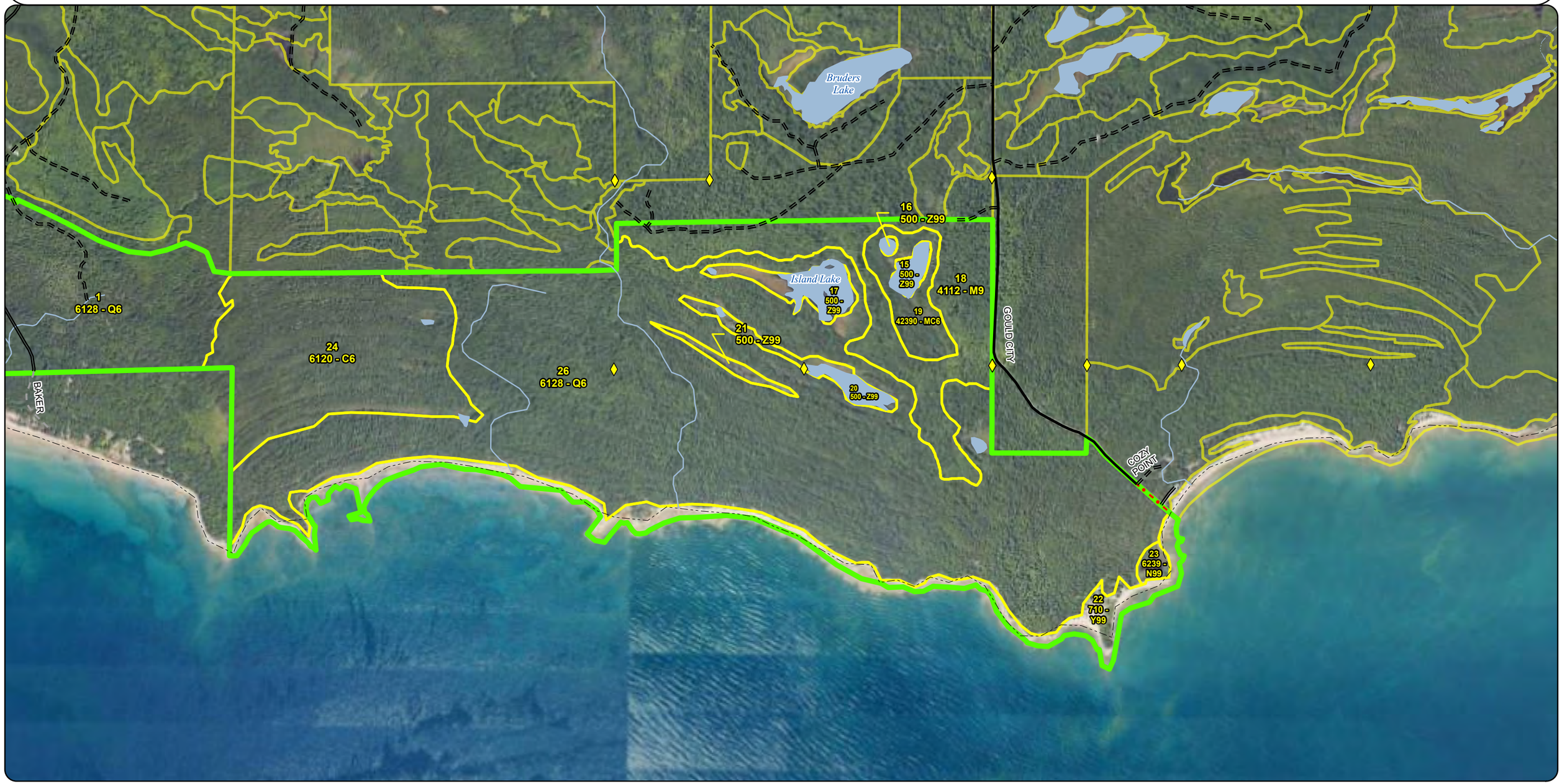
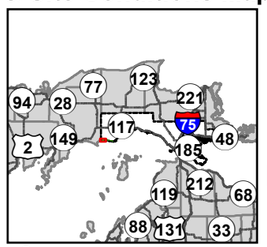


Special Conservation Areas & Site Conditions Map



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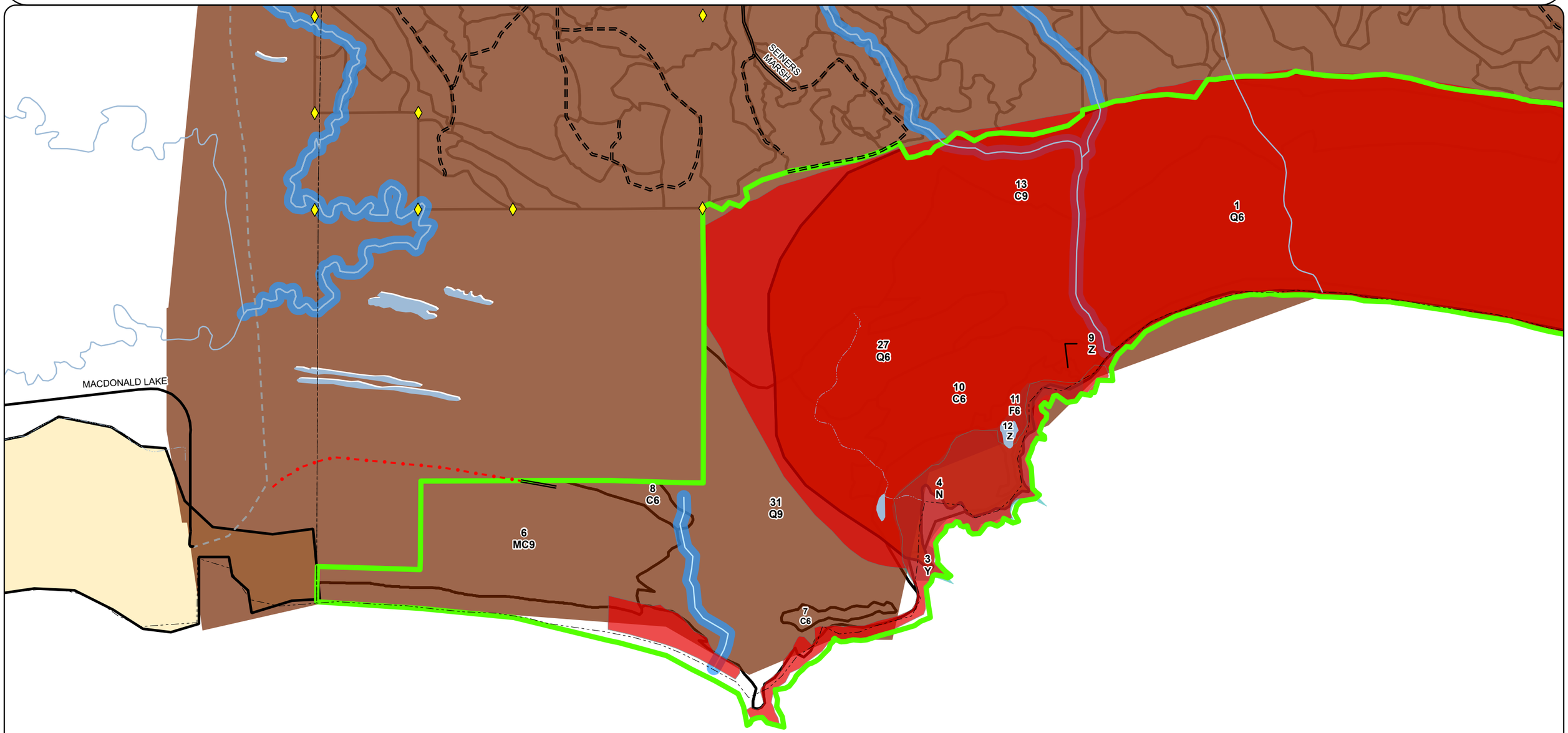
- Sand or Gravel Pit
- Other Habitat Area
- Possible Type 2 Old Growth



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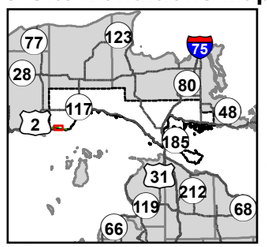

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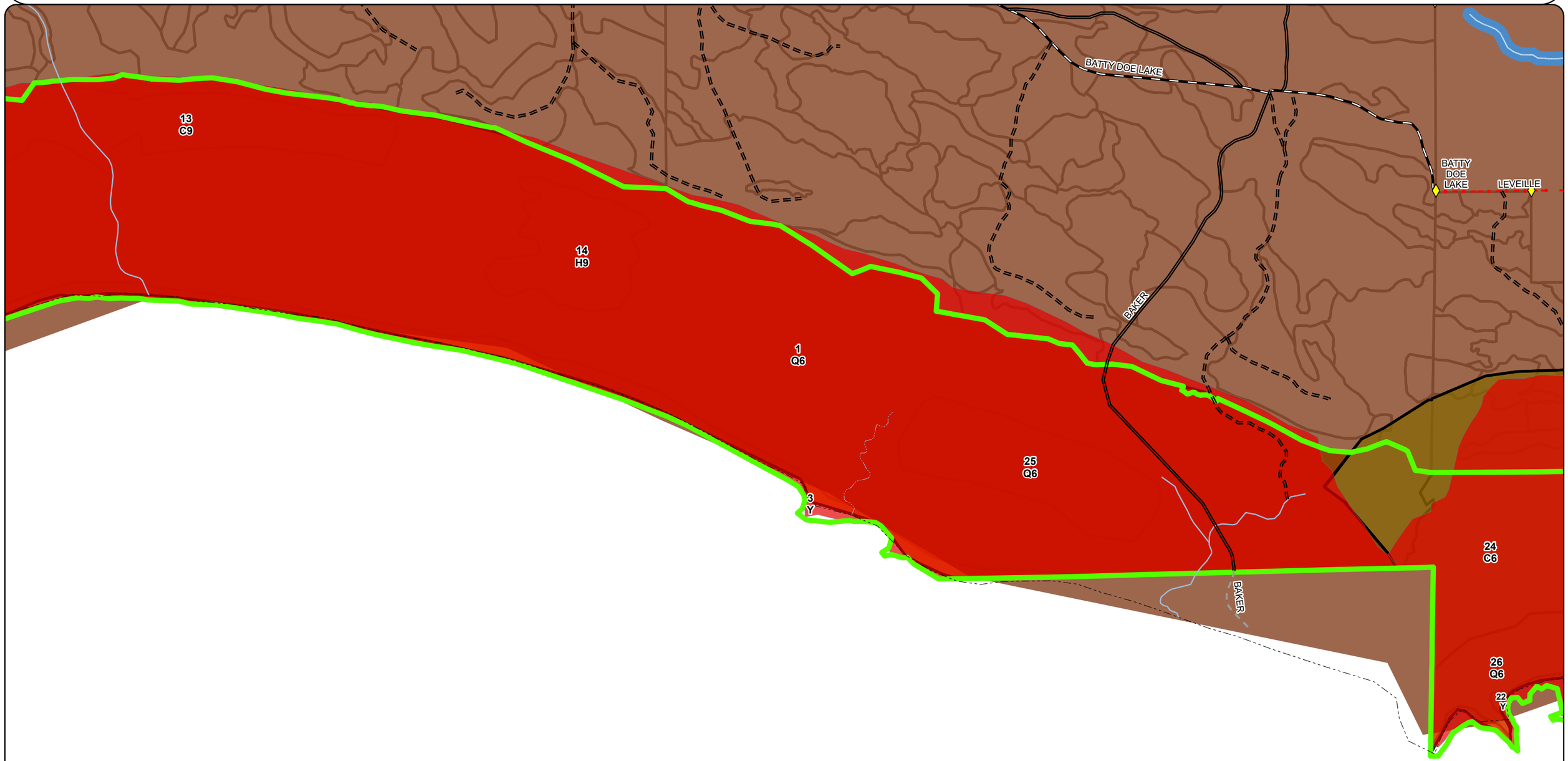

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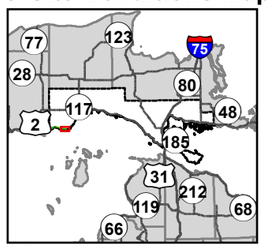

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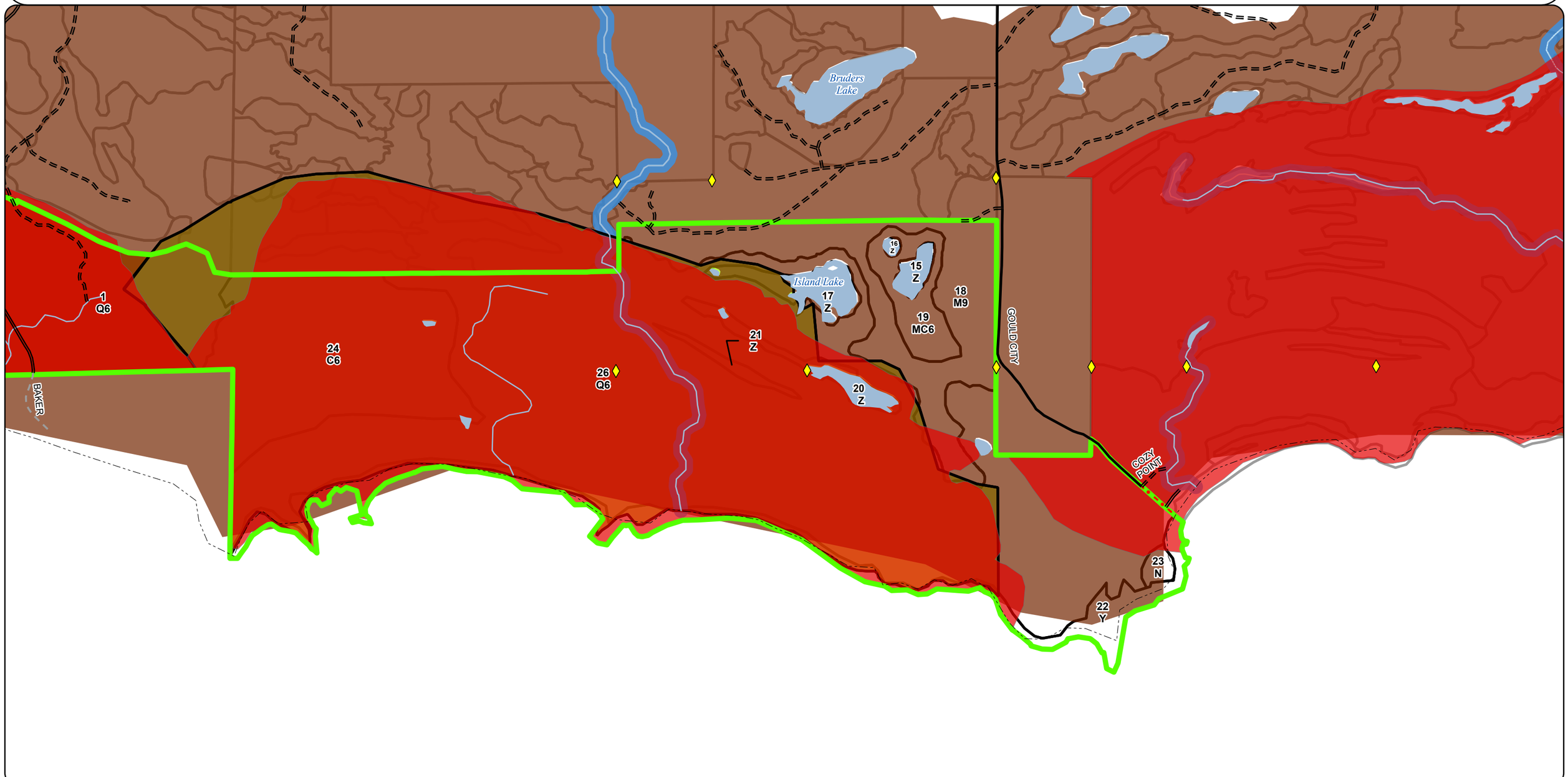

Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit **Compartment 200 Year of Entry 2027**

Nate Plato: Examiner

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
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	16	156	399	0	0	0	**571**
Hemlock	0	0	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	0	**60**
Lowland Conifers	0	0	0	0	0	0	0	0	1982	54	0	0	229	0	0	0	0	0	**2265**
Marsh	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**55**
Northern Hardwood	0	0	0	0	0	0	0	0	0	114	0	0	0	0	0	0	0	0	**114**
Sand, Soil	243	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**243**
Upland Conifers	0	0	0	0	0	0	0	0	0	0	26	128	0	0	0	0	0	0	**154**
Upland Spruce/Fir	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	**12**
Water	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**48**
Total	**346**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1994**	**168**	**26**	**188**	**245**	**156**	**399**	**0**	**0**	**0**	**3522**

Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2027

Compartment 200
Total Compartment Acres: 3,521

Acres of Harvest

Commercial Harvest - 240
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
Northern Hardwood		0	80	0	0	0	0	0	0	0	**80**
	Total	**0**	**80**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**80**

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		80	0	0	0	0	0	294	0	0	**374**
Next Step		0	0	0	0	0	222	159	222	0	**603**
	Total	**80**	**0**	**0**	**0**	**0**	**222**	**454**	**222**	**0**	**977**

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut

Proposed Treatments:

3	45200003-Monitor	170.8	710 - Sand, Soil	99			Monitoring	Monitoring	710 - Sand, Soil	Previous Inventory	No

Prescription Specs: Monitor for presence of phragmites.

Next Step Treatments: Other, Other - Specify; Pesticide, Broadcast

Acceptable Regen:

Other Comment: Monitor for illegal ORV use.

Site Condition: Conservation Values

Proposed Start Date: 10/02/2025

4	45200004-Monitor	51.0	6239 - Mixed Emergent Wetland	99			Monitoring	Monitoring	6239 - Mixed Emergent Wetland	Previous Inventory	No

Prescription Specs: Monitor for presence of phragmites or other invasive species.

Next Step Treatments: Pesticide, Broadcast; Other, Other - Specify

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/02/2025

18	45200018-Cut	79.7	4112 - Maple, Beech, Cherry Association	9	88	111-140	Harvest	Selection	411 - Northern Hardwood	Current	No

Prescription Specs: Thin stand to an average residual BA of 70-80 focusing on overmature, large diameter stems. Also remove as many declined/cull stems as possible while still maintaining target BA. Expand existing gaps with quality regen and also create gaps with regen pr

Next Step Treatments: Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Maple, birch, cherry, basswood, aspen, ash.

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Approved Treatments:

22	45200022-Monitor	72.5	710 - Sand, Soil	99			Monitoring	Monitoring	710 - Sand, Soil	Previous Inventory	No

Prescription Specs: Monitor for phragmites and spray if needed. Monitor for illegal ORV use.

Next Step Treatments:

Acceptable Regen: native plants

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut

Other Comment:

Site Condition: Conservation Values

Proposed Start Date: 10/01/2016

Total Treatment Acreage Proposed: **374**

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Nate Plato: Examiner

Compartment: 200

Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions 3H
571	0	*0*	571	**Cedar**	74
60	0	*0*	60	**Hemlock**	
2265	0	*0*	2265	**Lowland Conifers**	37
55	0	*0*	55	**Marsh**	
34	0	*0*	34	**Northern Hardwood**	
243	0	*0*	243	**Sand, Soil**	
154	0	*0*	154	**Upland Conifers**	
12	0	*0*	12	**Upland Spruce/Fir**	
48	0	*0*	48	**Water**	
3,441			3,441	Total Forested Acres	111
	0%		100%	Relative Percent	

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	**Unavailable**	**3A: Conservation values incompatible with harvest at this time**	2,020	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: ERA, DHA, Non-dedicated natural area, verified old growth						
2	**Unavailable**	**3A: Conservation values incompatible with harvest at this time**	233	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Non-dedicated natural area Seiner's Point and DWC						

3	**Unavailable**	**3H: Deer Wintering Area - habitat is incompatible with harvest at this time**	111	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
DWC

10	**Unavailable**	**3A: Conservation values incompatible with harvest at this time**	295	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Seiner's Point non-dedicated natural area.

14	**Unavailable**	**3A: Conservation values incompatible with harvest at this time**	782	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
WDS ERA, Simmons woods core interior habitat DHA, Non-dedicated Natural area Seiner's Point, verified old growth, DWC.

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
Scott Point	Type 1 or Type 2 Old Growth		**SCA Removal**	920
Comments				
Does not meet Old Growth Criteria				
Seiner's Point	Habitat Area or Habitat Corridor	Other Habitat Area	**SCA Removal**	1872
Comments				
Decided to propose removal during pre-review (7/08/2025) due to the many other ERA/HCVA designations in this area.				
Seiner's Point	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth	**SCA Removal**	1872
Comments				
Does not meet the criteria, proposed for removal during prereview (07/08/2025)				

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	1,219.9	70	111-140	N/A	2017 YOE: Large variable stand throughout the compartment. True mix dependingon where you stand. Overall is lowground with some areas of higher ground. 2017 YOE: Same as last entry. Low areas containing cedar and other swamp conifer mixed with ridges mixed with spruce/fir, aspen, maple and birch. Scattered large white pine throughout stand. Overall a pole stand, but most size classes present.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10		9	
Balsam Fir	25	Seedling	8	70
Red Maple	10		9	
Paper Birch	15		9	
White Spruce	15		10	
Northern White Cedar	20		10	

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	Medium	Variable	Variable
Maple (spp.)	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
3	710 - Sand, Soil	None	170.8			No	2017 YOE: Beach area with boulders and rocks in places.2027 YOE: Same as last entry. WLD: Surveyed for phragmites presence on 7/2/2025 and infestations were discovered. Treatment prescribed for spraying.
4	6239 - Mixed Emergent Wetland	None	51.0			No	2027 YOE: Marsh adjacent to lake. Mouth of unnamed creek. Surveyed for phragmites presence by WLD on 7/2/25 and infestation was discovered. Treatment prescribed for spraying.
6	429 - Mixed Upland Conifers	Sawtimber Well	128.1	105	81-110	N/A	2017 YOE: Stand is comprised of ridges with mixed pine and balsam/spruce, etc. and wetland in a dune and swale formation. 2027 YOE: Same as last entry. White pine appears to be most dominant throughout stand. Frequent mortality with fir, spruce and tamarack. Tag alder in swales.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	10		13	
White Pine	40		14	105
Red Maple	10		9	
Paper Birch	10		9	
Balsam Fir	15	Seedling	8	
Tamarack	5	Seedling	8	
Black Spruce	10	Seedling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Variable
Birch (spp.)	Low	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Conifers	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
7	6120 - Lowland Cedar	Poletimber Well	6.3	110	111-140	N/A	2017 YOE: Small stand of cedar adjacent to beach in somewhat of a depression.2027 YOE: Same as last entry. Dense pole stand. Wet throughout stand. Some blowdown on southern edge.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Seedling	8	
White Spruce	15		9	
Northern White Cedar	75	Seedling	8	110

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	Low	Variable	Variable
Tag Alder	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	6120 - Lowland Cedar	Poletimber Well	9.8	110	81-110	N/A	2017 YOE: Small stand of very wet ground. Small diameter cedar and widely scattered spruce.2027 YOE: Same as last entry. Stand is still an immature pole stand. Bigger diameters present in southern part of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Sapling	6	
Northern White Cedar	90	Seedling	6	110

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Northern White Cedar	Medium	Variable	Variable
Balsam Fir	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
9	500 - Water	None	1.3			No	2027 YOE: Small pond between large cedar stand and lake.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
10	6120 - Lowland Cedar	Poletimber Well	62.8	130	111-140	N/A	2017 YOE: Dense stand of pole diameter cedar.2027 YOE: Same as last entry. Some blowdown present, especially on southern edge. A few scattered, large diameter white pine throughout stand.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5		15	
Balsam Fir	10	Seedling	8	
Northern White Cedar	85		9	130

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	Variable	Variable
Balsam Fir	Low	Variable	Variable
Tag Alder	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	42340 - Upland Spruce/Fir	Poletimber Well	11.5	70	51-80	N/A	2017 YOE: Small upland stand between beach and low cedar. Mostly small Spruce/fir.2027 YOE: Same as last entry. A few scattered white pine present.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	40	Seedling	8	70
Red Maple	10		9	
Paper Birch	5		9	
White Pine	5		12	
White Spruce	30		9	
Northern White Cedar	10	Seedling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Variable
Balsam Fir	Medium	Variable	Variable
White Pine	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
12	500 - Water	None	1.8			No	2027 YOE: Small pond next to beach.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	6120 - Lowland Cedar	Sawtimber Well	336.0	132	111-140	N/A	2017 YOE: Thick cedar stand with some mixed softwood and birch. Very wet in most places and lots of hummucks. Very dense cover.2027 YOE: Same as last entry. Log size stand overallm but all size classes present. Very steep ridge transitioning stand from hardwoods to the north. Heavy browse throughout stand.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5		12	
Balsam Fir	10		9	
Northern White Cedar	70		10	132
Red Maple	5		10	
Paper Birch	10		10	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	Variable	Variable
Red Maple	Low	Variable	Variable
Balsam Fir	Medium	Variable	Variable
Birch (spp.)	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	59.8	100	111-140	N/A	2017 YOE: Stand of large Hemlock and mixed hardwood on higher ground ridges if dune and swale. Uniqie island stand within large lowland conifer area.2027 YOE: Same as last entry. Some hemlock regen in gaps and lesser stocked areas. Maple regen is heavily browsed.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Seedling	8	
Red Maple	35		10	
Paper Birch	10		9	
White Spruce	5		10	
Hemlock	40		14	100

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	Variable	Variable
Birch (spp.)	Low	Variable	Variable
Maple (spp.)	Low	Variable	Variable
Conifers	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	500 - Water	None	5.6			No	Pond surrounded by lowland mix.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	500 - Water	None	1.1			No	Pond surrounded by lowland mix.

Stand 17 — 500 - Water | None | 18.0 acres | Managed Site: No

General Comments: Pond surrounded by lowland mix. A couple small islands with various lowland species present.

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	Variable	Variable
Black Spruce	Low	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

Stand 18 — 4112 - Maple, Beech, Cherry Association | Sawtimber Well | 113.7 acres | Stand Age: 88 | BA Range: 111-140 | Managed Site: N/A

General Comments: 2017 YOE: Hardwood stand hit hard with BBD.2027 YOE: Overstocked and overmature northern hardwood stand. Many trees in decline or already dead. BA would significantly higher without extensive mortality. Mostly hard maple, but other associated species present. Maple regen throughout stand, especially in mortality gaps, but is heavily browsed. Not many beech left, but scattered beech brush present.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5		12	
Basswood	5		12	
Beech	5		14	
Sugar Maple	60		14	88
Red Maple	20		12	
Paper Birch	5		10	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	Variable	Variable
Basswood	Low	Variable	Variable
Birch (spp.)	Low	Variable	Variable
Balsam Fir	Low	Variable	Variable
Maple (spp.)	High	Variable	Variable

Stand 19 — 42390 - Mixed Non-Pine Upland Conifers | Poletimber Well | 26.1 acres | Stand Age: 98 | BA Range: 81-110 | Managed Site: N/A

General Comments: 2017 YOE: mixed upland/lowland stand surrounding small lake/pond2027 YOE: Mixed lowland stand heavy to cedar. Very wet in spots. A couple small upland patches containing a hardwood hemlock mix.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5		11	
Balsam Fir	15	Seedling	8	
Tamarack	5	Seedling	7	
Black Spruce	10	Seedling	8	
Northern White Cedar	40		9	98
Hemlock	5		17	
Red Maple	10		12	
Paper Birch	10		9	70

Sub-Canopy Species	Density	Avg. Height	Size
Conifers	Medium	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Maple (spp.)	Medium	Variable	Variable

Stand 20 — 500 - Water | None | 14.6 acres | Managed Site: No

General Comments: Pond surrounded by lowland mix. A couple small islands with various lowland species present.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Black Spruce	Low	Variable	Variable
Northern White Cedar	Low	Variable	Variable

Stand 21 — 500 - Water | None | 5.5 acres | Managed Site: No

General Comments: Pond surrounded by lowland mix.

Stand 22 — 710 - Sand, Soil | None | 72.5 acres | Managed Site: No

General Comments: 2017 YOE: Beach with boulders and rocks scattered, some bedrock expose in areas.2027 YOE: Same as last entry.

Stand 23 — 6239 - Mixed Emergent Wetland | None | 4.3 acres | Managed Site: No

General Comments: 2027 YOE: Marsh with open water and grass. Lowland shrubs around edges.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
24	6120 - Lowland Cedar	Poletimber Well	155.7	120	Unspecified	N/A	2017 YOE: Dune and swale with higher cedar component than surrounding large lowland conifer stand. Low ridges, very wet in between.2027 YOE: Same as last entry. Some blowdown throughout stand. Cedar regen present in some areas. Heavy dune and swale complex with tag alder in swales.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	15	Seedling	8	
Balsam Fir	10	Seedling	8	
White Spruce	10		9	
Northern White Cedar	65		9	120

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	Variable	Variable
Northern White Cedar	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
25	6124 - Lowland Spruce-Fir	Poletimber Well	84.4	70	81-110	N/A	2017 YOE: Mixed softwood stand on slightly higher ridges than surrounding lowland conifer. Dune and swale complex.2027 YOE: Same as last entry. Very wet in middle of stand, tag alder inclusion. Some fir mortality present throughout stand. Scattered cedar regen in spots.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5		15	
Black Spruce	35	Seedling	8	
Northern White Cedar	10		9	
Balsam Fir	40	Seedling	8	70
Paper Birch	10		9	

Sub-Canopy Species	Density	Avg. Height	Size
Maple (spp.)	Low	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Birch (spp.)	Low	Variable	Variable
Conifers	Medium	Variable	Variable
Northern White Cedar	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	677.3	70	111-140	N/A	2017 YOE: Large variable stand throughout the compartment. True mix depending on where you stand. Overall is lowground with some areas of higher ground. 2027 YOE: Same as last entry. Fir and birch are consistent throughout stand. More cedar mixed in in lower areas. Maple and spruce mixed in in higher areas.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5		10	
Balsam Fir	30	Seedling	8	70
Red Maple	15		12	
Paper Birch	20		9	
White Spruce	5		10	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	Variable	Variable
Balsam Fir	Medium	Variable	Variable
Maple (spp.)	Medium	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	53.8	80	81-110	N/A	2017 YOE: Ridge and swale complex. 2027 YOE: Tag alder in swales. Ridges slightly higher with less cedar than surrounding stands. Some cedar blowdown and fir mortality. Scattered cedar regen throughout stand.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	20		9	
Black Spruce	15	Seedling	8	
Northern White Cedar	20		9	
Balsam Fir	30	Seedling	9	80

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	Variable	Variable
Black Spruce	Low	< 5 feet	< 5 feet
Maple (spp.)	Low	Variable	Variable
Birch (spp.)	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
31	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	229.3	112	111-140	N/A	2017 YOE: Large variable stand throughout the compartment. True mix dependingon where you stand. Overall is lowground with some areas of higher ground. 2027 YOE: Dune and swale mix of cedar, spruce, pine and fir. Some maple and aspen mixed in. Tag alder in swales. Mouth of unnamed creek within stand. Little regen in stand due to heavy crown cover. A couple small ponds present within stand.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	5		10	
Red Maple	5		9	
Paper Birch	25		9	
White Spruce	10		10	
Northern White Cedar	30		10	112
White Pine	5		14	

Sub-Canopy Species	Density	Avg. Height	Size
Birch (spp.)	Low	Variable	Variable
Northern White Cedar	Low	Variable	Variable
Red Maple	Low	Variable	Variable
Balsam Fir	Medium	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet