



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45162

Entry Year 2027

Acreage: 1,591

County: Mackinac

Management Area: St. Ignace Lake Plain

Stand Examiner: Cody Flatt

Legal Description:

T43N-R8W Sections 19, 20, 29 & 30, Hudson Township & T43N-R9W Sections 24 & 25, Garfield Township.

Identified Planning Goals:

This compartment is located 4 miles east of Naubinway. The compartment and surrounding area is composed of a variety of different upland and lowland types and species. The old Lake Nipissing shoreline makes a dramatic break between the majority of uplands and the deer yard lowland areas. The aspen type within the compartment and the surrounding area has been managed extensively within the past 30 years. Most of the aspen within the compartment was harvested between 1972 and 1985. A large aspen type timber sale (Strickler Sale) was set up in the early 70's for Mead to supply wood to the new mill. Most of the conifer stands will not be managed this year of entry. The northern hardwood types within the compartments not treated in the last decade have been proposed for a selection harvest. A conifer component will be retained in all the northern hardwood stands where species are present.

Soil and topography:

The compartment transitions from the Lake Michigan shoreline north through the ridge and swale complex to the old Lake Nipissing shoreline on to the rolling upland with drainage flowing toward Lake Michigan. The ridge and swale is composed of Leafriver-Croswell-Wainola complex, Croswell-Wainola complex. The other lowland soil types are Leafriver mucky peat and Markey and Carbondale mucks. The transition along the Lake Nipissing bluff is Wallace-Alcona complex which is the soil on most of the drainages within the compartment. The majority of the uplands are Wallace sand, Pullup fine sand, Paquin sand, Borgstrom sand; and some transition soils are Caffey-Ingalls-Iosco complex, and Finch-Dawson-Pullup complex.

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

The east side of the compartment is surrounded by state lands, and to the north is state ownership except Section 18 which is in private ownership for the entire mile boundary. The west side is a mixture of state and private ownership and the south is bordered by private ownership and Lake Michigan. There is a mixture of absentee owners and permanent residences surrounding and within the compartment. The Black River Road has a settlement along both sides of the road and the Black River for over 1 mile.

Unique Natural Features:

Potential for raptors to nest in the compartment exists and care will be taken to check stands for nests and take appropriate management action to protect the species. There is a potential for some rare, threatened, and special concern plant and animal species to inhabit the compartment. Stands to be managed will be checked for species of concern. Management will be modified if species are found within those stands per management guidelines for that species. The Niagara escarpment runs through the compartment.

Archeological, Historical, and Cultural Features:

One possible old homestead within the compartment.

Special Management Designations or Considerations:

The Great Lakes Gas pipeline and Enbridge Oil pipeline right-of-ways with 2 Cloverland Electric transmission lines, run across the compartment. Contact will be made with the companies when harvesting activities take place around the right-of-ways.

Watershed and Fisheries Considerations:

The western region of this compartment contains Mattix Creek. Mattix Creek is a designated Type 1 trout stream less than 50-ft wide. A 300-foot buffer is recommended for Mattix Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect Mattix Creek in accordance with Best Management Practices. The eastern region of this compartment contains the Black River, Borgstrom Creek, and the East Branch Black River. The Black River (Type 4), Borgstrom Creek (Type 1), and the East Branch Black River (Type 1) are all designated trout streams less than 50-ft wide and have predicted mean July water temperatures that range from 57.6 to 61.3°F (cold streams). 300-foot buffers are

recommended for the Black River, Borgstrom Creek, and the East Branch Black River in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended 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. Aspen is prevalent on the eastern side of the compartment and cedar dominates most of the western and southern parts. Most of the cedar is part of a ridge-and-swale complex located near US-2. A couple of hardwood stands exist near the northern boundary of the compartment north the escarpment, which generally separates the uplands from the cedar and lowland stands further south. Despite its proximity to the shoreline, this compartment extends to the shoreline in only a few places. Cedar and other closed canopy conifer cover will be retained to provide cover for wintering deer as well as habitat for snowshoe hare, migratory songbirds, and other species. Treatments in deciduous stands will generally take place during the winter months for wintering deer. Some northern hardwoods will be treated to increase age class and structural diversity within the stands. The northern hardwood habitat in this area and the surrounding should benefit black-throated blue warbler and other migratory birds. Shoreline areas will generally remain untreated unless invasive species treatments are necessary.

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. The closest known active sand & gravel operation is more than three miles west of the compartment. There may be some potential for sand & gravel development on the uplands in the northern portion of the compartment. The southern portion of the compartment largely consists of dune and swale complexes (unique to the Great Lakes shorelines) that are ecologically sensitive and likely to be protected from development.

Vehicle Access:

The vehicle access is very good through most of the compartment. US – 2 Highway provides the access to the southern portion of the compartment. The Black River Road and Borgstrom Road are county maintained paved and/or good gravel roads. The Black River Road provides the access to Section 19 and the Borgstrom Road provides the access to Sections 20 and 29. The Flowing Well Road runs between the Black River and Borgstrom Roads. The Flowing Well Road has a large beaver dam in the middle. The road is no longer travelable on the private land. The two trails off the main roads give good access to all areas of the compartment except Section 25 and the south half of Section 24 which are lowlands. The Ledge and Ridge Roads are DNR maintained good dirt roads. These provide good access to the north west quarter of Section 24.

Survey Needs:

Survey needed in Sections 24 and 19, corners needed to establish sale boundary for proposed harvests.

Recreational Facilities and Opportunities:

The Black River State Forest Campground is just to the north of Section 19. The area is heavily used by fishers, hunters, campers, berry and mushroom pickers, motorized vehicle users and nature viewers. The close proximity to the private lands and the campground makes the area more enticing for recreational users.

Fire Protection:

The fire potential is low to moderate in this area. The amount of private ownership surrounding the state lands increases the chances for a debris fire escape. The area has good access for except for the lowland areas. The potential for ground fire is high in the lowland if there is a start in these areas.

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.

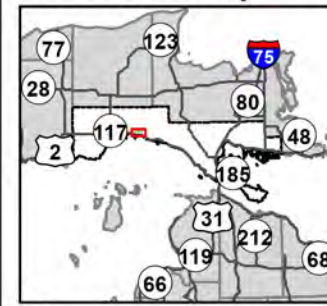
The following reports from the Inventory are attached:

- 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**

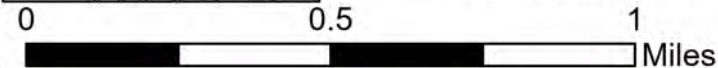
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatments Map

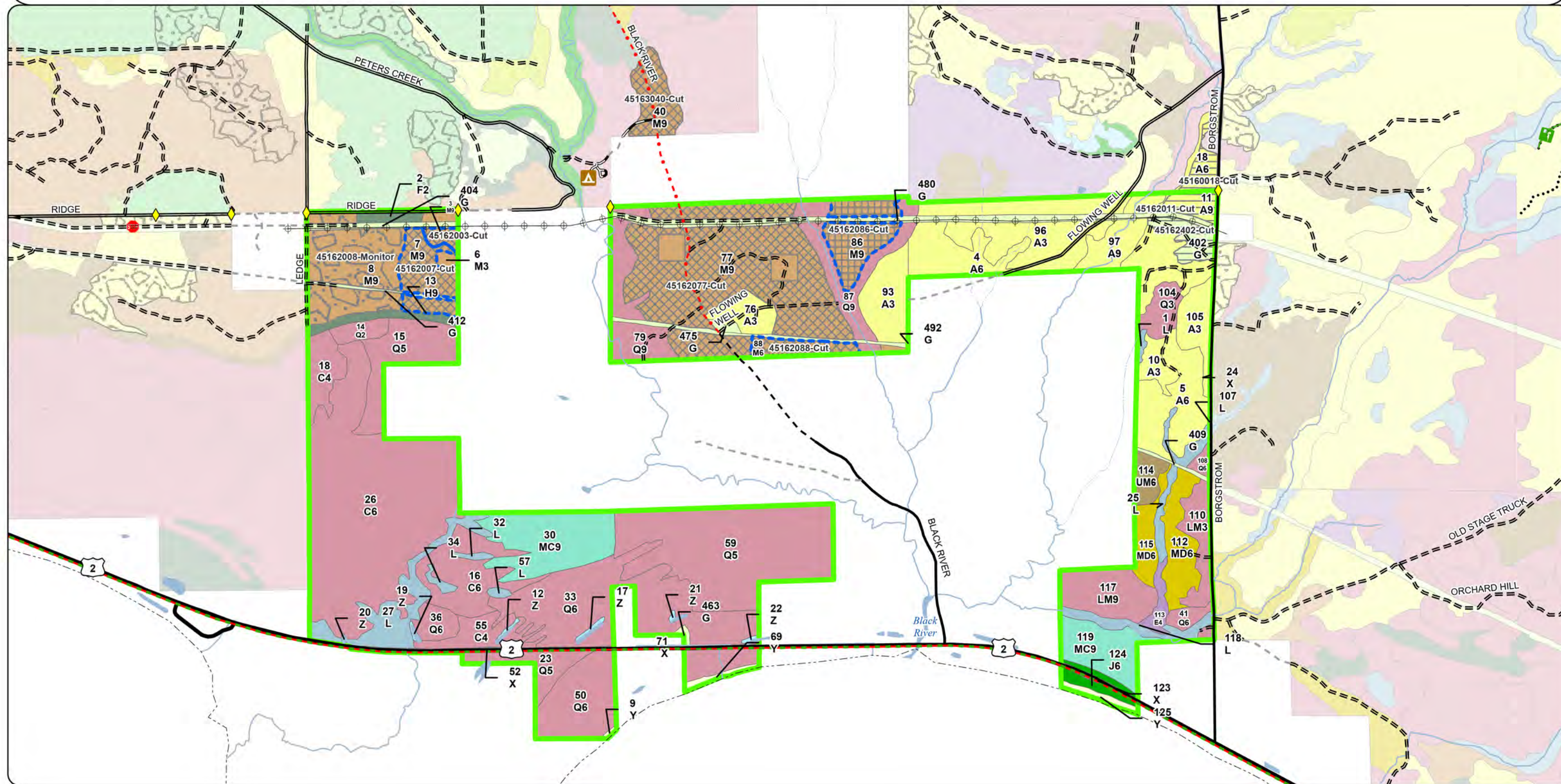


Compartment: 45162
T43N, R08W, Sec: 19, 20, 29, 30
T43N, R09W, Sec: 24, 25
County: Mackinac
Unit: Sault Ste. Marie
Mgmt. Area: St. Ignace Lake Plain
YOE: 2027
Acres: 1,591 GIS Calculated
Examiner: Cody Flatt
Date Exported: 07/18/2025
Map Phase: Web Post

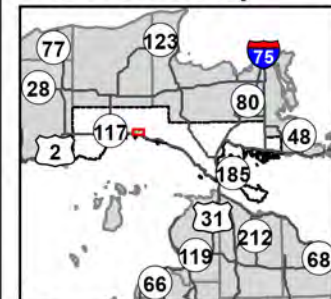


- Survey Grade Corners
- Campground
- Sign
- Designated Bicycle Trails
- Designated Hunter Walking Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Powerline
- Compartment Boundary
- Clearcut
- Selection
- Seed Tree
- Monitoring - Regeneration

- Treatments with Site Conditions
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 710 - Sand, Soil



Cover Type & Treatments Map

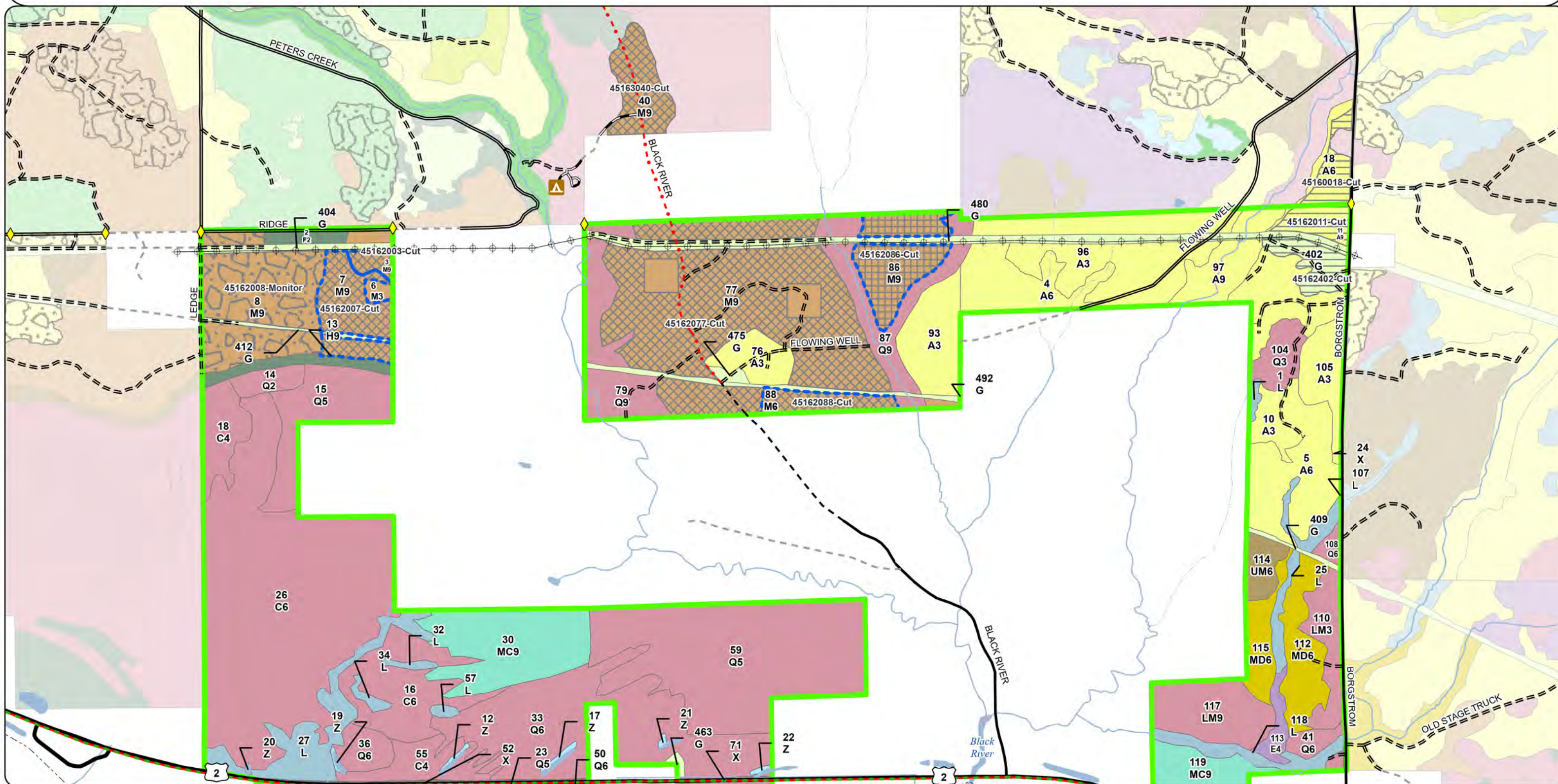


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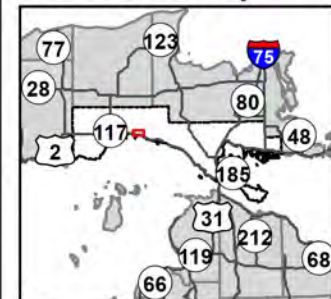
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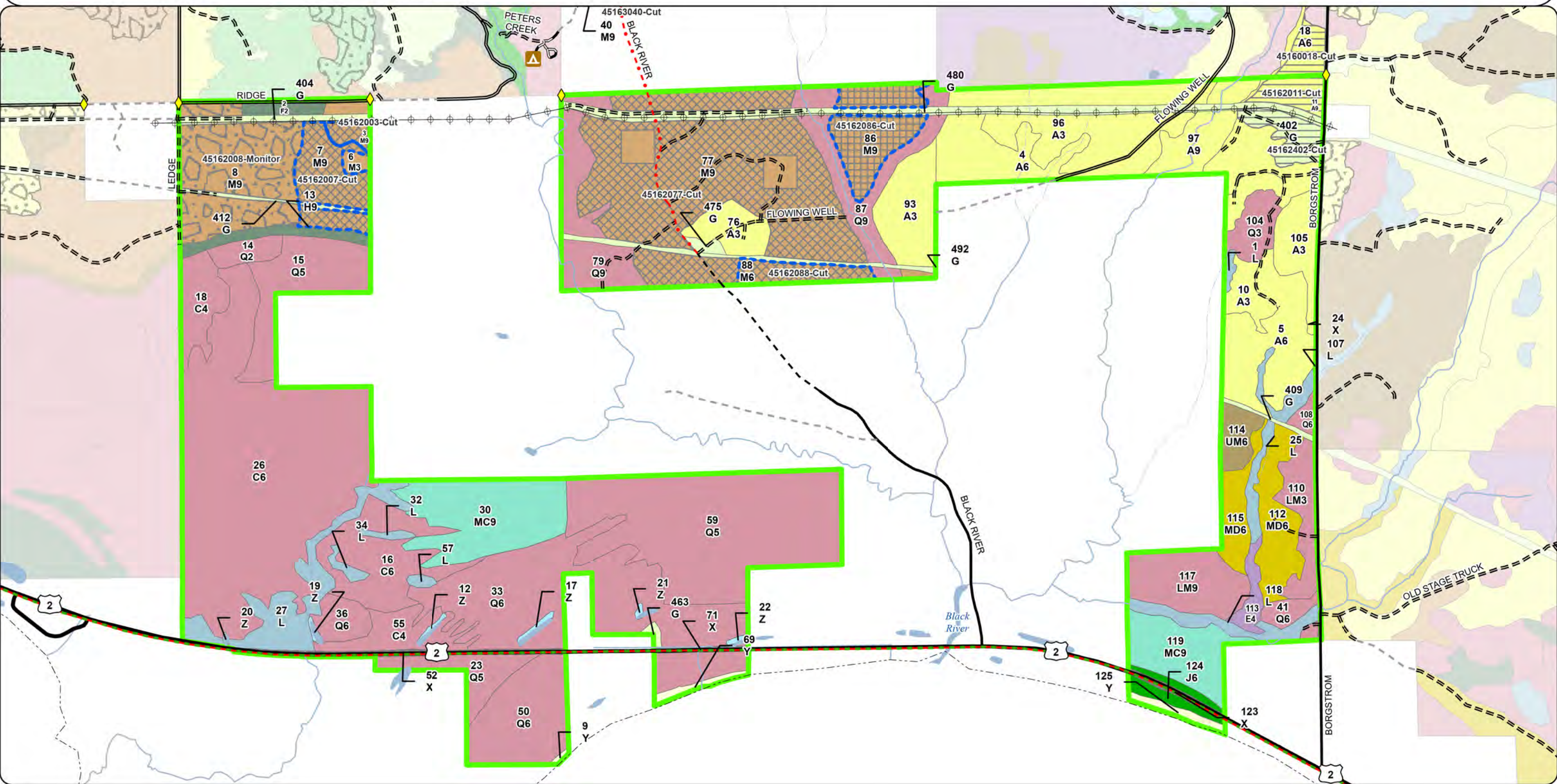
613 - Lowland Mixed Forest

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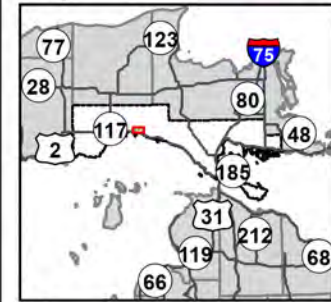
310 - Herbaceous Openland

622 - Lowland Shrub

710 - Sand, Soil



Stand Boundary Map



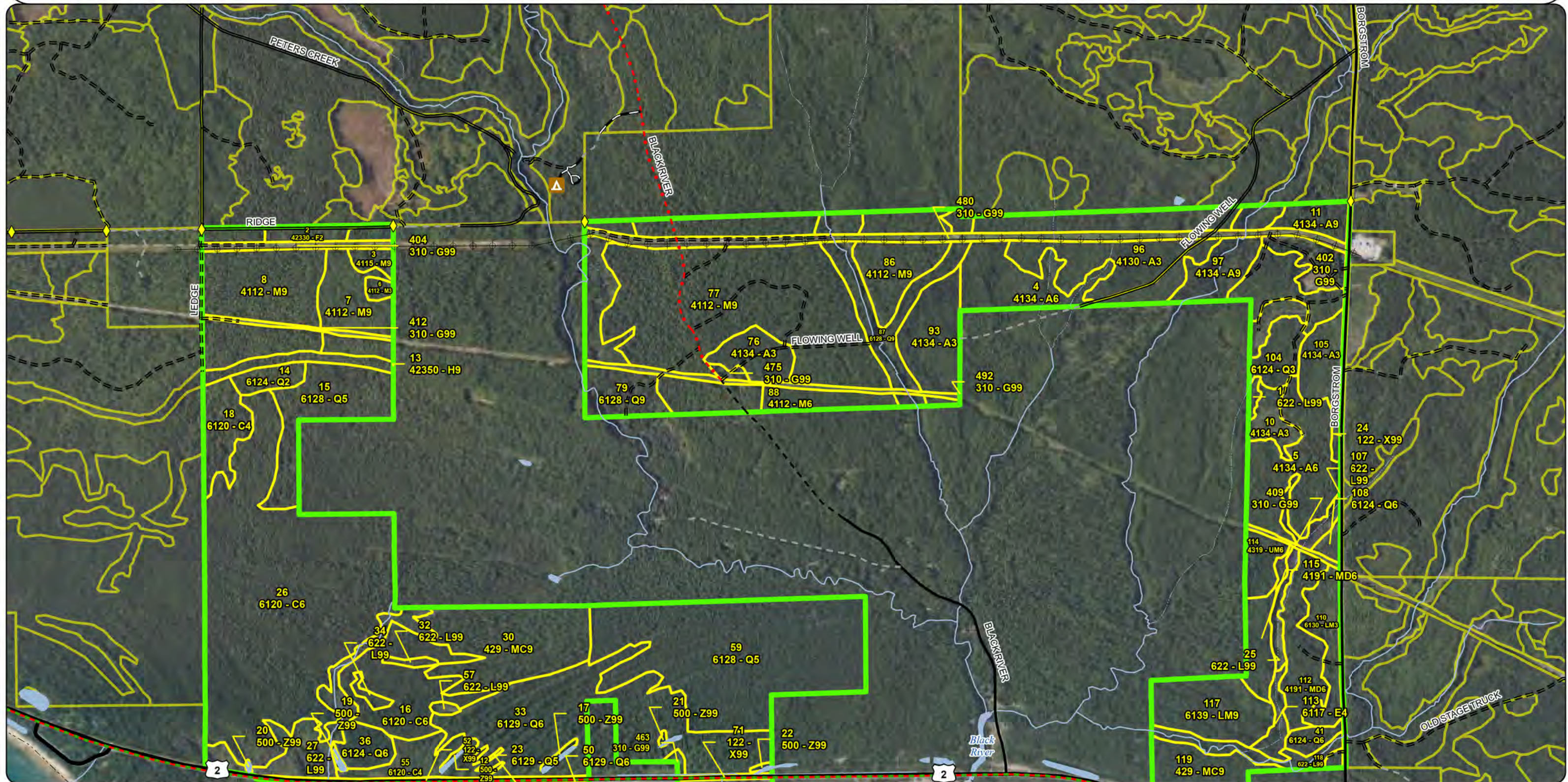
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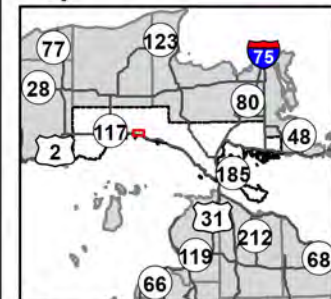
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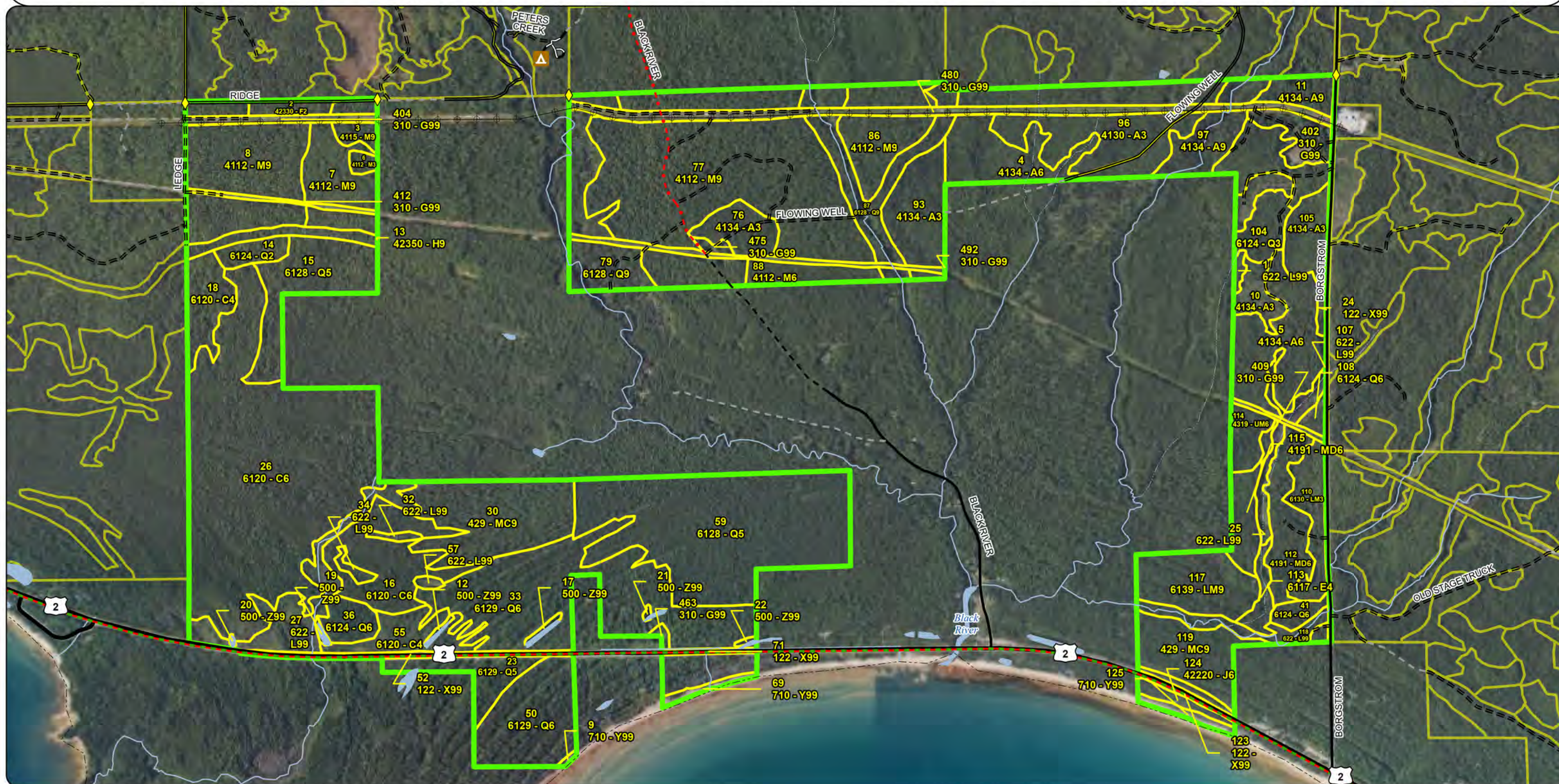
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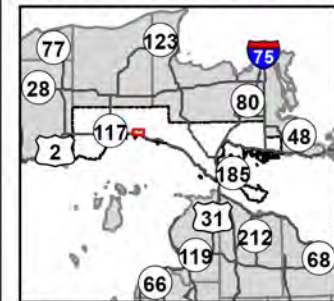
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Special Conservation Areas & Site Conditions Map



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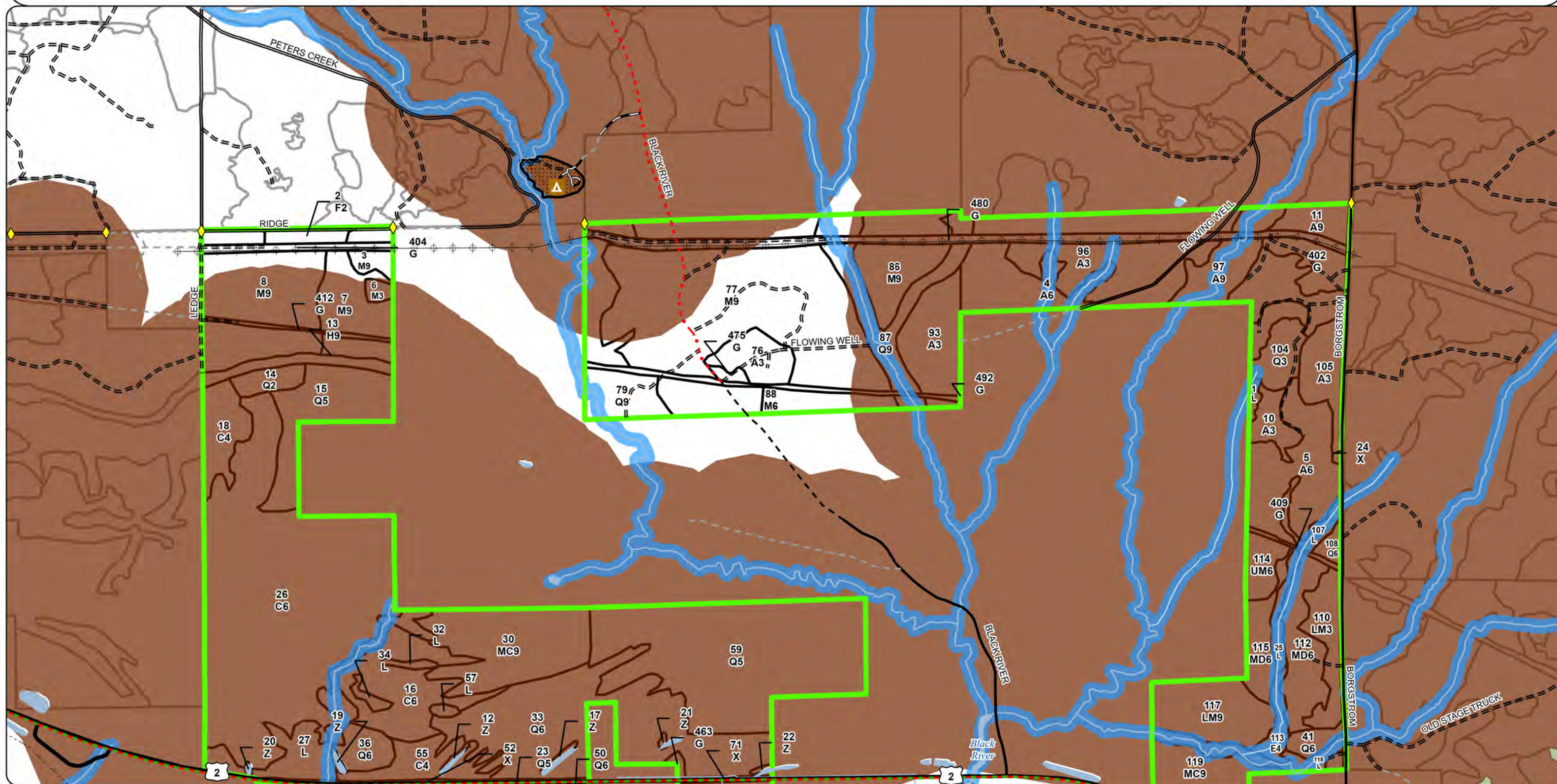
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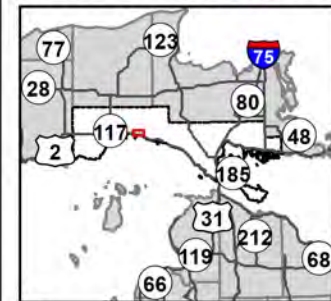
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- Compartment Boundary
- Stand Boundaries

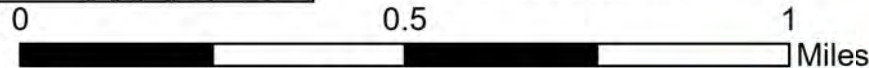
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- Cold Water Streams
- High Priority Trout Stream Buffer
- Type 1 and Type 2 Old Growth
- Deer Winter Range
- State Forest Campground



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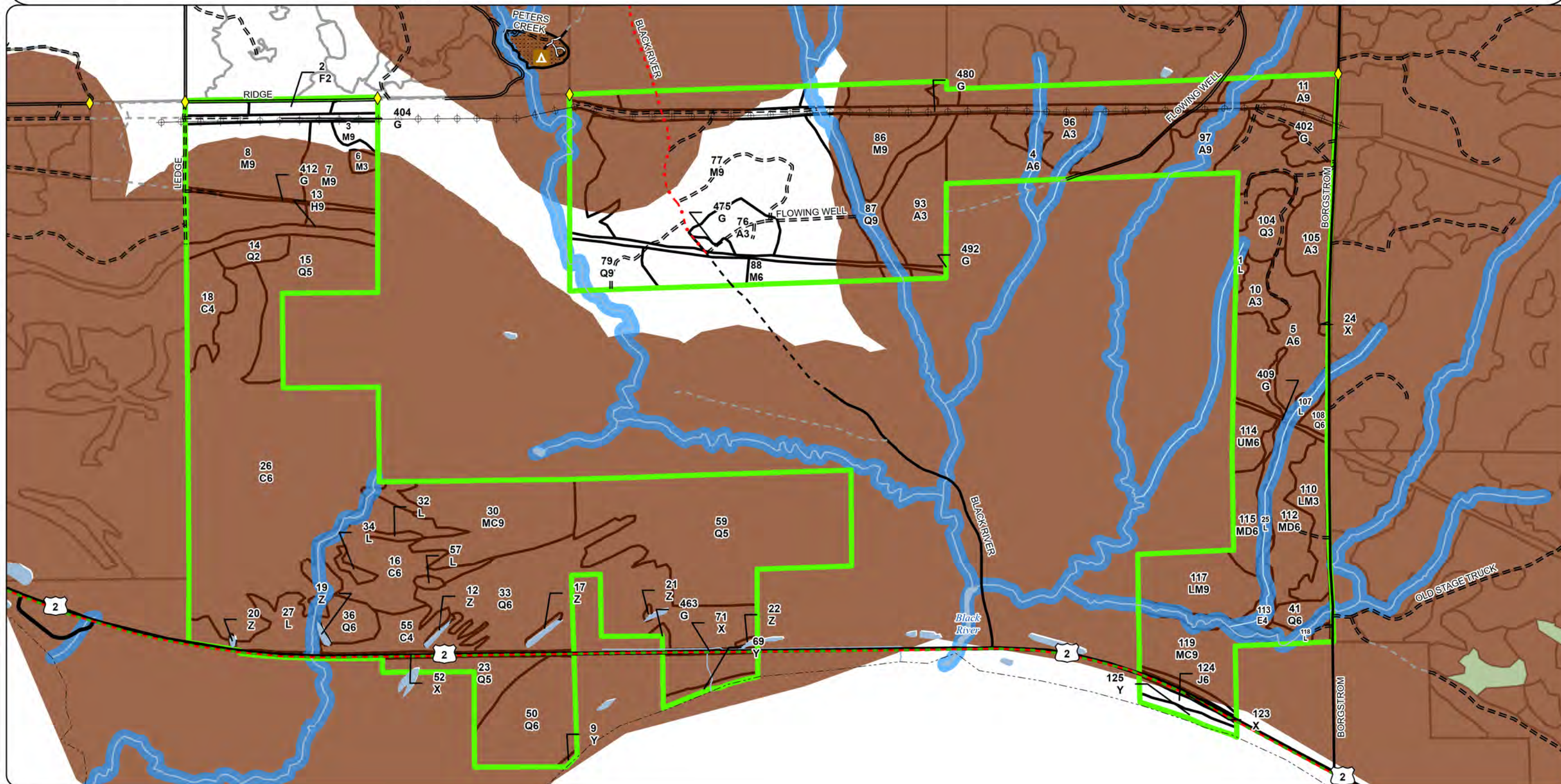


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Report 1 – Total Acres by Cover Type and Age Class

Cody Flatt: 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
Aspen	0	45	0	17	40	62	70	0	0	20	0	0	0	0	0	0	0	0	253
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	263	0	0	0	0	263
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	9
Herbaceous Openland	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Jack Pine	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	12	0	17	121	0	0	3	0	6	0	231	0	0	0	34	424
Lowland Deciduous	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Mixed Forest	0	0	17	0	0	0	0	0	0	0	0	30	0	0	0	0	0	0	47
Lowland Shrub	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Mixed Upland Deciduous	0	0	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	38
Northern Hardwood	0	0	0	0	13	2	0	0	0	0	0	0	0	0	0	0	0	284	299
Sand, Soil	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	50	78
Upland Mixed Forest	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Upland Spruce/Fir	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Urban	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Total	151	45	17	35	62	81	235	0	0	31	0	64	0	494	0	0	9	368	1591



Report 2 – Treatment Summary

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

Acres of Harvest

Compartment 162
Total Compartment Acres: 1,591

Commercial Harvest - 492
Harvests with Site Condition - 154
Next Step Harvest - 61
Habitat Cut - 61

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	9	0	0	0	0	0	0	0	0	9
Herbaceous Openland	12	0	0	0	0	0	0	0	0	12
Northern Hardwood	0	193	0	29	0	0	0	0	0	222
Total	21	193	0	29	0	0	0	0	0	243

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	243	0	0	0	0	0	61	0	0	304
Next Step	61	0	0	0	0	0	405	0	0	466
Total	304	0	0	0	0	0	466	0	0	769



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	Habitat Cut
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Proposed Treatments:

18	45160018-Cut	9.4	4134 - Aspen, Spruce/Fir	6	55	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
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Prescription Cut all deciduous trees that are 2" or greater at DBH and all conifer trees that are 4" or greater at DBH. Retention will be left in riparian buffer.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, birch, cherry, spruce, fir, pine

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2026

3	45162003-Cut	4.3	4115 - Y.Birch, Hemlock NH	9	120	111- 140	Harvest	Selection	4115 - Y.Birch, Hemlock NH	Current	No
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Prescription Thin stand to an average of 60-80 BA. Focus on over mature, larger diameter stems, especially large red maple. Leave healthy beech and
Specs: maintain a component of yellow birch and cherry throughout stand. Leave any hemlock. Leave trees over 26" DBH that me

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Maple, birch, cherry, aspen, spruce, fir, pine

Regen:

Other Harvest restricted to Dec 1- March 31 due to deer wintering complex.

Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

7	45162007-Cut	26.4	4112 - Maple, Beech, Cherry Association	9	88	111- 140	Harvest	Selection	4112 - Maple, Beech, Cherry Association	Current	No
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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
8 45162008-Monitor	60.8	4112 - Maple, Beech, Cherry Association	9	105	81-110	Monitoring	Monitoring - Regeneration	4112 - Maple, Beech, Cherry Association	Current	No
<u>Prescription</u> Continue to monitor current maple regeneration for excessive deer browse. <u>Specs:</u> <u>Next Step</u> Harvest, Shelterwood <u>Treatments:</u> <u>Acceptable</u> Maple, birch, cherry, aspen, spruce, fir, pine <u>Regen:</u> <u>Other</u> May need to harvest stand again to release regen past deer browse height. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
11 45162011-Cut	9.1	4134 - Aspen, Spruce/Fir	9	52	51-80	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Cut all deciduous trees that are 2" or greater at DBH and all conifer trees that are 4" or greater at DBH. Retention will be left in riparian buffer. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, maple, birch, cherry, spruce, fir, pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
77 45162077-Cut	150.4	4112 - Maple, Beech, Cherry Association	9	87	111-140	Harvest	Selection	4112 - Maple, Beech, Cherry Association	Current	No
<u>Prescription</u> Thin stand to an average of 60-80 BA. Focus on over mature, larger diameter stems, especially large red maple. Leave healthy beech and <u>Specs:</u> maintain a component of yellow birch and cherry throughout stand. Leave any hemlock. Leave trees over 26" DBH that me <u>Next Step</u> Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> Maple, birch, cherry, aspen, spruce, fir, pine <u>Regen:</u> <u>Other</u> Minimum 100' plus 5' per 1% increase in slope buffer along creek. May thin to 70-90 BA within buffer. Harvest restricted to Dec 1- March 31 <u>Comment:</u> due to deer wintering complex. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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86 45162086-Cut	29.0	4112 - Maple, Beech, Cherry Association	9	96	81-110	Harvest	Seed Tree	4112 - Maple, Beech, Cherry Association	Planting Record	No
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Prescription Leave tree mark 6-8 trees per acre. Retain under represented hardwood species such as black cherry and yellow birch, and conifer species where possible. Leave trees and stream buffers will serve as long term retention. If additional retention needed to a

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Maple, birch, cherry, aspen, spruce, fir, pine

Other Comment: Harvest restricted to Dec 1- March 31 due to deer wintering complex. Minimum 100' plus 5' per 1% increase in slope buffer along stream, bridge will be needed

Site Condition: Portable Bridge Needed

Proposed Start Date: 10/01/2026

88 45162088-Cut	11.6	4112 - Maple, Beech, Cherry Association	6	37	81-110	Harvest	Selection	4112 - Maple, Beech, Cherry Association	Current	No
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Prescription Thin stand to an average of 70-80 BA. Focus on removing poor form stems. Leave healthy beech and maintain a component of yellow birch and cherry throughout stand. Leave any hemlock. Leave trees over 26" DBH that meet legacy tree standards. Open up exist

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

Acceptable Regen: Maple, birch, cherry, aspen, spruce, fir, pine

Other Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

402 45162402-Cut	11.9	310 - Herbaceous Openland	99			Harvest	Clearcut	310 - Herbaceous Openland	Previous Inventory	No
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Prescription Cut all merchantable trees. No retention to maintain as an opening.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Regen: None

Other Comment: Opening Maintenance cut.

Site Condition:

Proposed Start Date: 10/01/2026



Standard

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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40	45163040-Cut	21.0	4110 - Sugar Maple Association	9	86	81-110	Harvest	Selection	4110 - Sugar Maple Association	Current	No
<p><u>Prescription</u> Thin stand to an average of 60-80 BA. Focus on over mature, larger diameter stems, especially large red maple. Leave healthy beech and</p> <p><u>Specs:</u> maintain a component of yellow birch and cherry throughout stand. Leave any hemlock. Leave trees over 26" DBH that me</p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Maple, birch, cherry, aspen, spruce, fir, pine</p> <p><u>Other Comment:</u> Harvest restricted to Dec 1- March 31 due to deer wintering complex.</p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/01/2026</p>											

Total Treatment 333.9
Acreage Proposed:



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

2D 2I 2F 3D 3H 3J

254	234	0	20	Aspen						20
263	0	0	263	Cedar					263	
9	0	0	9	Hemlock			9			
63	63	0	0	Herbaceous Openland						
8	0	0	8	Jack Pine				8		
423	245	0	178	Lowland Conifers					107	71
6	0	0	6	Lowland Deciduous						6
46	17	0	30	Lowland Mixed Forest			30			
59	59	0	0	Lowland Shrub						
38	38	0	0	Mixed Upland Deciduous						
296	224	73	0	Northern Hardwood	29	44				
8	8	0	0	Sand, Soil						
78	78	0	0	Upland Conifers						
9	9	0	0	Upland Mixed Forest						
6	6	0	0	Upland Spruce/Fir						
17	17	0	0	Urban						
4	4	0	0	Water						
1,588	1,001	72	514	Total Forested Acres	29	44	39	8	370	98
	63%	5%	32%	Relative Percent						

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

Site No.	Dominant Site Cond	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		2F: Too steep	9	3A: Conservation values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions



2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	2I: Survey needed	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3D: Recreational/scenic values	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2F: Too steep	30	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	190	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



14	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	35	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	2D: Portable bridge needed (Dept. bridge will be adequate)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	2I: Survey needed	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



20	Available	5G: Research Study	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
21	Available	5G: Research Study	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
22	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Riparian buffer leave as long term retention							

Mgt. Unit

Compartment: #Type!
Year of Entry:

Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	622 - Lowland Shrub	None	1.6			No	Drainage area



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
6	4112 - Maple, Beech, Cherry Association	Sapling Well	2.4	41	1-50	N/A	Harvested in 1984 to be managed as brush or grass opening. Has regenerated to a stand of red maple and balsam fir. Still a lot of sapling sized stems, some near pole size.																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>80</td><td>Pole</td><td>4</td><td>41</td></tr><tr><td>Balsam Fir</td><td>20</td><td>Sapling</td><td>5</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	80	Pole	4	41	Balsam Fir	20	Sapling	5		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	< 5 feet	< 5 feet																												
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7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	26.4	88	111-140	N/A	Cleaned up after Ledge Road Hardwood sale was closed with not all marked trees harvested. Small sale to clean up the marked trees in small area in the stand. Ridge Road Firewood #101-07-01 completed 07/05/2010. Areas of marked trees not cut creating a few areas of basal area from 110-160. Deer browse on maple regeneration.																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Yellow Birch</td><td>2</td><td></td><td>10</td><td></td></tr><tr><td>Balsam Fir</td><td>5</td><td>Sapling</td><td>6</td><td></td></tr><tr><td>Red Maple</td><td>85</td><td></td><td>10</td><td>88</td></tr><tr><td>Hemlock</td><td>8</td><td></td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Yellow Birch	2		10		Balsam Fir	5	Sapling	6		Red Maple	85		10	88	Hemlock	8		12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Balsam Fir</td><td>Medium</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Beech</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	5 - 10 feet	5 - 10 feet	White Pine	Low	< 5 feet	< 5 feet	Balsam Fir	Medium	10 - 20 feet	10 - 20 feet	Beech	Low	5 - 10 feet	5 - 10 feet						
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8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	60.8	105	81-110	N/A	The few remaining beech have died. High beech sub canopy with maple growing under the beech. Thinned spring/summer of 2020 Lake Breeze Maple (45-109-2017). Heavy deer browse on maple regen.																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Sugar Maple</td><td>42</td><td></td><td>10</td><td></td></tr><tr><td>Red Maple</td><td>55</td><td></td><td>11</td><td>105</td></tr><tr><td>Yellow Birch</td><td>3</td><td></td><td>14</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	42		10		Red Maple	55		11	105	Yellow Birch	3		14		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Sugar Maple</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Striped Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Serviceberry (Juneberry)</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Beech</td><td>High</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Red Maple</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	< 5 feet	< 5 feet	Striped Maple	Low	5 - 10 feet	5 - 10 feet	Serviceberry (Juneberry)	Low	>20 feet	>20 feet	Beech	High	10 - 20 feet	10 - 20 feet	Red Maple	Medium	< 5 feet	< 5 feet							
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9	710 - Sand, Soil	None	0.6			No	Lake Michigan sand and dune																																																
10	4134 - Aspen, Spruce/Fir	Sapling Well	15.2	4	Immature	N/A	Stand was cut in winter of 2020/2021 as part of the Borgstrom Aspen (45-110-17) timber sale. Some pockets of unmerchantable fir left unharvested. Originally part of stand 5																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>50</td><td>Log</td><td>2</td><td>4</td></tr><tr><td>Black Cherry</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>Balsam Fir</td><td>20</td><td>Pole</td><td>4</td><td></td></tr><tr><td>Paper Birch</td><td>10</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Log</td><td>1</td><td></td></tr><tr><td>White Spruce</td><td>10</td><td>Pole</td><td>2</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Quaking Aspen	50	Log	2	4	Black Cherry	5	Log	1		Balsam Fir	20	Pole	4		Paper Birch	10	Log	1		Red Maple	5	Log	1		White Spruce	10	Pole	2																			
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Red Maple	5	Log	1																																																				
White Spruce	10	Pole	2																																																				
11	4134 - Aspen, Spruce/Fir	Sawtimber Well	9.5	52	51-80	N/A	Continuation of adjacent stand 18 in Comp160 to the north. Some larger aspen with maple poles in south portion of stand with areas of filled in opening in north portion with larger maple and white pine. Manage with stand to north.																																																
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>15</td><td></td><td>10</td><td></td></tr><tr><td>White Spruce</td><td>10</td><td></td><td>10</td><td></td></tr><tr><td>Quaking Aspen</td><td>40</td><td></td><td>10</td><td>52</td></tr><tr><td>Sugar Maple</td><td>15</td><td></td><td>10</td><td></td></tr><tr><td>Balsam Fir</td><td>10</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>White Pine</td><td>10</td><td></td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Maple	15		10		White Spruce	10		10		Quaking Aspen	40		10	52	Sugar Maple	15		10		Balsam Fir	10	Seedling	6		White Pine	10		12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Sugar Maple</td><td>Medium</td><td>Variable</td><td>Variable</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Variable	Balsam Fir	Low	Variable	Variable	Sugar Maple	Medium	Variable	Variable
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Sugar Maple	Medium	Variable	Variable																																																				
12	500 - Water	None	0.7			No																																																	





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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
59	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	121.3	50	Unspecified	N/A	Harvested in the mid 1970's, is a ridge and swale stand. Has balsam fir, spruce, white birch, aspen, red maple, cedar, white pine, with some tag alder in the swales. Small size pole stand, still a lot of sapling size stems.																																																									
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Tag Alder	Medium	5 - 10 feet	5 - 10 feet																																																													
69	710 - Sand, Soil	None	3.1			No	Lake Michigan beach and sand dune.																																																									
71	122 - Road/Parking Lot	None	2.2			No	US - 2 Highway R.O.W. zone.																																																									
76	4134 - Aspen, Spruce/Fir	Sapling Well	14.0	37	51-80	N/A	Harvested in 1988, good aspen regeneration. Some areas of larger diameter aspen 6"+, nearing pole size throughout.																																																									
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>75</td><td>Pole</td><td>4</td><td>37</td></tr><tr><td>White Spruce</td><td>10</td><td></td><td>8</td><td></td></tr><tr><td>Balsam Fir</td><td>10</td><td>Seedling</td><td>8</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Pole</td><td>4</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	75	Pole	4	37	White Spruce	10		8		Balsam Fir	10	Seedling	8		Red Maple	5	Pole	4		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Balsam Fir</td><td>Low</td><td>Variable</td><td>Variable</td></tr><tr><td>Red Maple</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	Variable	Variable	Red Maple	Low	5 - 10 feet	5 - 10 feet																								
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77	4112 - Maple, Beech, Cherry Association	Sawtimber Well	160.5	87	111-140	N/A	Thinned in 2008 Washout Hardwoods sale. Significant amount of xlog red maple in the stand. Maple regeneration is coming in the best on the west side of Black River Road and south of the pipeline. The other areas have greater beech regeneration. Some areas of heavy deer browse on regen.																																																									
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79	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	33.6	125	111-140	N/A	Drainage into Black River and Black River influence zone. Steep slope, two small streams and Black River.																																																									
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Stand	Level 4 Cover Type	Size	Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
86	4112 - Maple, Beech, Cherry Association	Sawtimber Well	29.0	96	81-110	N/A	Stand was cut 2 entries ago. Heavy deer browse on maple saplings.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		10		10		Beech	Low	Variable	Variable
Beech		5		12		Red Maple	Medium	< 5 feet	< 5 feet
Hemlock		5		12		Conifers	Medium	Variable	Variable
Red Maple		80		10	96				
87	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	31.1	125	81-110	N/A	Stand which serves as a buffer for the streams which flow into the Black River.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch		20		14		Red Maple	Low	< 5 feet	< 5 feet
Red Maple		20		10		Beech	Low	5 - 10 feet	5 - 10 feet
Northern White Cedar		45		8	125	White Spruce	Low	5 - 10 feet	5 - 10 feet
White Spruce		15		10					
88	4112 - Maple, Beech, Cherry Association	Poletimber Well	12.8	37	81-110	N/A	Harvested in 1988 with some overstory trees retained.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		55		6	37	Red Maple	Medium	Variable	Variable
Sugar Maple		40		6		Sugar Maple	Medium	Variable	Variable
Yellow Birch		5		10		Balsam Fir	Low	5 - 10 feet	5 - 10 feet
						Beech	Medium	Variable	Variable
93	4134 - Aspen, Spruce/Fir	Sapling Well	26.3	37	1-50	N/A	Regeneration is doing great. Stand is just starting to transition into a pole stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir		20	Sapling	5		Conifers	Medium	5 - 10 feet	5 - 10 feet
Quaking Aspen		60	Pole	4	37				
Red Maple		5	Log	3					
Paper Birch		5	Pole	4					
White Spruce		10	Pole	4					
96	4130 - Aspen	Sapling Well	29.4	2	Immature	N/A	Cut in winter of 2023/2024 as part of the Borgstrom Aspen (45-110-17) timber sale.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		60	Log	1	2	Conifers	Medium	Variable	Variable
White Spruce		5	Log	1					
Red Maple		5	Log	1					
Paper Birch		10	Log	1					
Black Cherry		10	Log	1					
Balsam Fir		10	Pole	4					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
97	4134 - Aspen, Spruce/Fir	Sawtimber Well	20.2	87	111-140	N/A	Drainage corridor for Borgstrom Creek. Steep banks down to the stream. Good mixture of understory species with some maple, spruce, balsam fir, and tag alder along stream. Some mortality to the aspen.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Paper Birch		5		8		Tag Alder		Low	Variable	Variable	
Northern White Cedar		5	Seedling	7		Conifers		High	Variable	Variable	
White Spruce		20		9		Red Maple		Low	Variable	Variable	
Balsam Fir		10		8							
Red Maple		10		10							
Quaking Aspen		50		10	87						
104	6124 - Lowland Spruce-Fir	Sapling Well	12.0	27	Immature	N/A	Stand was cut in 1998. Regeneration is doing good. Still sapling size diameters.				
Canopy Species		% Cover	Size Class	DBH	Age						
Quaking Aspen		10	Log	3	27						
Balsam Poplar		10	Log	3							
Paper Birch		10	Log	3							
Black Cherry		5	Log	2							
White Spruce		10	Log	2							
Balsam Fir		15	Log	3							
Red Maple		5	Log	2							
Black Spruce		35	Log	3	27						
105	4134 - Aspen, Spruce/Fir	Sapling Well	16.5	27	Immature	N/A	Stand was cut in 1998. Regeneration is doing really good.				
Canopy Species		% Cover	Size Class	DBH	Age						
Balsam Fir		20	Pole	4							
White Spruce		10	Log	3							
Bigtooth Aspen		10	Log	3							
Quaking Aspen		50	Log	3	27						
Paper Birch		10	Log	3							
107	622 - Lowland Shrub	None	5.5			No	Intermittent stream corridor with tag alder present. Buffer strip along the stream. Beaver dam at pipeline R.O.W				
Sub-Canopy Species		Density	Avg. Height	Size							
Tag Alder		Low	5 - 10 feet	5 - 10 feet							
108	6124 - Lowland Spruce-Fir	Poletimber Well	2.9	82	111-140	N/A	Small stand that has been left as a buffer along the creek and Borgstrom Road.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		10	Seedling	8		Red Maple		Low	Variable	Variable	
White Pine		5		12		Conifers		High	Variable	Variable	
Northern White Cedar		5	Seedling	6		Tag Alder		Low	Variable	Variable	
Paper Birch		10	Seedling	7							
Balsam Fir		20	Seedling	6							
Black Spruce		40	Seedling	6	82						
Red Maple		10	Seedling	8							





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																											
115	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	13.4	52	51-80	N/A	Part of the Strickler Sale cut about in 1973. Mixture of species with aspen, maple, spruce, balsam fir, and some cherry. Understory is balsam fir and maple. Some scattered areas of merchantable size, mostly non-merchantable poles and saplings.																																																											
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117	6139 - Mixed Lowland Forest	Sawtimber Well	29.5	105	51-80	N/A	Mackinac mix stand with ridges and swales. Mostly is birch, aspen, balsam fir, and spruce with white pine on the ridges. Heavy mortality occurring within the stands. Very difficult access down a very steep slope. Some swale areas are real wet with tag alder.																																																											
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118	622 - Lowland Shrub	None	11.0			No	East Branch of Black River corridor with tag alder present and few trees along the edge. Buffer strip along the river. Very steep in areas.																																																											
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119	429 - Mixed Upland Conifers	Sawtimber Well	28.0	105	51-80	N/A	Ridges and swales with some wet area. Could potentially harvest ridge areas once spruce and fir reach merchantability in future.																																																											
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123	122 - Road/Parking Lot	None	2.8			No	US - 2 Highway R.O.W. zone.																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
124	42220 - Natural Jack Pine	Poletimber Well	7.7	85	111-140	N/A	Small jack pine stand on south and north side of US -2 highway to leave for aesthetics.																																					
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125	710 - Sand, Soil	None	4.0			No	Lake Michigan beach and sand dune.																																					
402	310 - Herbaceous Openland	None	11.9			No	Previous Notes: Opening on the south side of the pipeline. Some aspen and maple encroaching into the opening. Has a few apple trees present. See locked comments box.																																					
		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Aspen (spp.)</td><td>Medium</td><td>Variable</td><td>Variable</td></tr><tr><td>Maple (spp.)</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>White Pine</td><td>Low</td><td>>20 feet</td><td>>20 feet</td></tr></table>		Sub-Canopy Species	Density	Avg. Height	Size	Aspen (spp.)	Medium	Variable	Variable	Maple (spp.)	Low	>20 feet	>20 feet	White Pine	Low	>20 feet	>20 feet																									
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404	310 - Herbaceous Openland	None	6.6			No	Enbridge Oil Pipeline and Cloverland Electric powerline row with the pipeline on north side and transmission line on south side. Mostly grass with some blueberry, raspberry and trees encroaching. Pipeline and transmission electric row is maintained mechanically and with herbicide applications under the specifications of the land use permit.																																					
409	310 - Herbaceous Openland	None	1.8			No	Great Lakes Gas pipeline r.o.w. opening. Maintained by mechanical or herbicide applications according to the land use permit specifications. Beaver dam where lowland crosses r.o.w																																					
412	310 - Herbaceous Openland	None	3.1			No	Great Lakes Gas pipeline r.o.w. opening. Maintained by mechanical or herbicide applications according to the land use permit specifications.																																					
463	310 - Herbaceous Openland	None	1.2			No	Small opening from the old Timbercrest campground. Mostly still open with grasses with few balsam fir encroaching.																																					
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White Pine	Low	Variable	Variable																																									
475	310 - Herbaceous Openland	None	1.9			Yes	Treat with stand 76 when harvested.																																					
480	310 - Herbaceous Openland	None	29.3			No	Enbridge Oil Pipeline and Cloverland Electric powerline row with the pipeline on north side and transmission line on south side. Mostly grass with some blueberry, raspberry and trees encroaching. Pipeline and electric transmission line are maintained with mechanical and herbicide applications under the specifications of the land use permit.																																					
492	310 - Herbaceous Openland	None	7.6			No	OPIC - FMD: Great Lakes Gas pipeline r.o.w. opening. Maintained by mechanical or herbicide applications according to the land use permit specifications.																																					