



# Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12172

Entry Year 2021

Acreage: 2,975

County Iron

Management Area: Peavy Moraine

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**Revision Date:** 2019-08-04

**Stand Examiner:** Scott Sebero

**Legal Description:**

T41N, R31W, Sections 5, 6, 7, 8 and 17.  
T41N, R32W, Sections 1 and 2.  
T42N, R31W, Section 31.  
T42N, R32W, Sections 24, 25, 35 and 36.

**Identified Planning Goals:**

Our management goals in this compartment are to develop age class distribution in the aspen type, to maintain health of conifer types and increase acreage where possible and to develop the quality while maintaining diversity in hardwood types. The State of Michigan will work to develop buffers on streams, to increase public access and to maintain and improve the road system.

**Soil and topography:**

Land is nearly level to hilly, excessively drained to well-drained, loamy and sandy soils on ground moraines, end moraines and outwash plains. Compartment is mostly uplands with small lowland swamps and drainages.

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

Ownership within this compartment consists of mostly State lands with some company lands a few private parcels. Lands within and around this compartment are used mainly for hunting and managed for forest products.

**Unique Natural Features:**

Natural feature within this compartment would include the Paint River, Horse Race Rapids and Peavy Pond.

**Archeological, Historical, and Cultural Features:**

None.

**Special Management Designations or Considerations:**

None.

**Watershed and Fisheries Considerations:**

This compartment contains Paint River (warm transitional large river), unnamed tributaries to the Paint River, small corners to Paint River Pond and Peavy Pond, unnamed ponds or wetland areas, and a portion of the Menominee River (warm large river). All of these waterbodies have a recommended 100' buffer, plus 5' per 1% increase in slope.

**Wildlife Habitat Considerations:**

This compartment falls within the Peavey End Moraine MA with woodcock, black bear, eastern bluebird, deer and wood duck as featured species. Currently considered conditional deeryard, this area contains the critical cover that encompassed the historic Little Bull Rapids Deeryard. Hemlock, cedar, pine, spruce and fir all help to provide thermal cover critical to deer survival in this area. The Brule Island Hunter Walking Trail provides and extensive system for hunters hunting grouse, woodcock, bears, deer and snowshoe hare. Riparian habitat is very important in this area.

**Mineral Resource and Development Concerns and/or Restrictions**

Active sand/gravel pits are located more than six miles away, but there appears to be good gravel potential within the compartment. Abandoned iron mines are located six miles to the northwest. There is no history of metallic mineral exploration or leasing in the compartment. There may be potential for metallic minerals within the compartment, but little information exists for the area. No known potential exists for economic hydrocarbon production in the UP. The state does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

**Vehicle Access:**

Vehicle access is from the North off Lake Mary Road and the Diversion Canal Road. The bridge over the Diversion Canal has a 14-ton limit on it, which prevents logging trucks from crossing. A ford across the Paint River was used to haul wood

off Island last entry.

**Survey Needs:**

None.

**Recreational Facilities and Opportunities:**

This area is used mainly for hunting. We-energies allows public hunting, trapping and fishing on its land holdings under FERC agreement, although ORV access is not allowed.

**Fire Protection:**

**Additional Compartment Information:**

The following reports from the Inventory are attached:

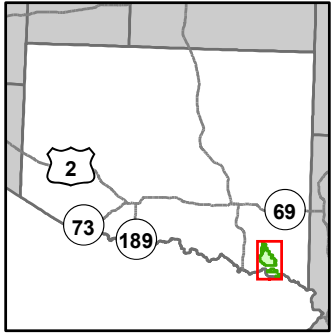
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

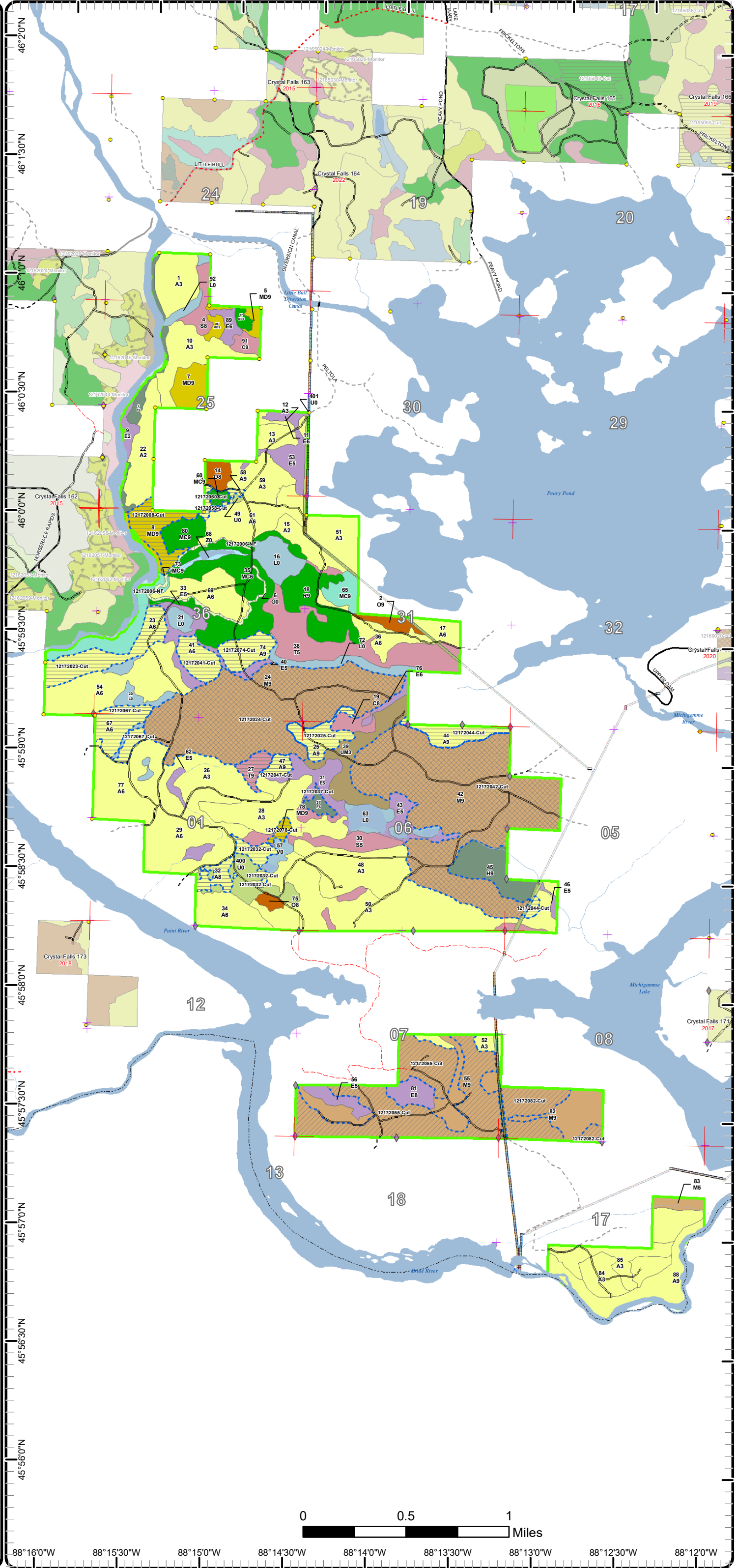
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 172  
 T42N, R32W, Sec. 24, 25, 36  
 T42N, R31W, Sec. 31  
 T41N, R32W, Sec. 1  
 T41N, R31W, Sec. 5-8, 17  
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 Unit: Crystal Falls  
 Mgmt Area: Peavy Moraine  
 YOE: 2021  
 Acres: 2,975 GIS Calculated  
 Examiner: Scott Sebero  
 Map Revised: 1/28/2020

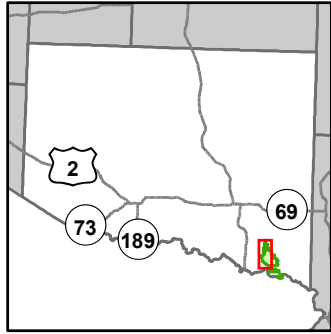


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- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
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- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
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- Treatments with Site Conditions
- Selection (Group, Single Tree)
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- 412 - Oak Types
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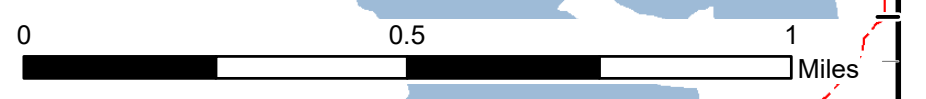
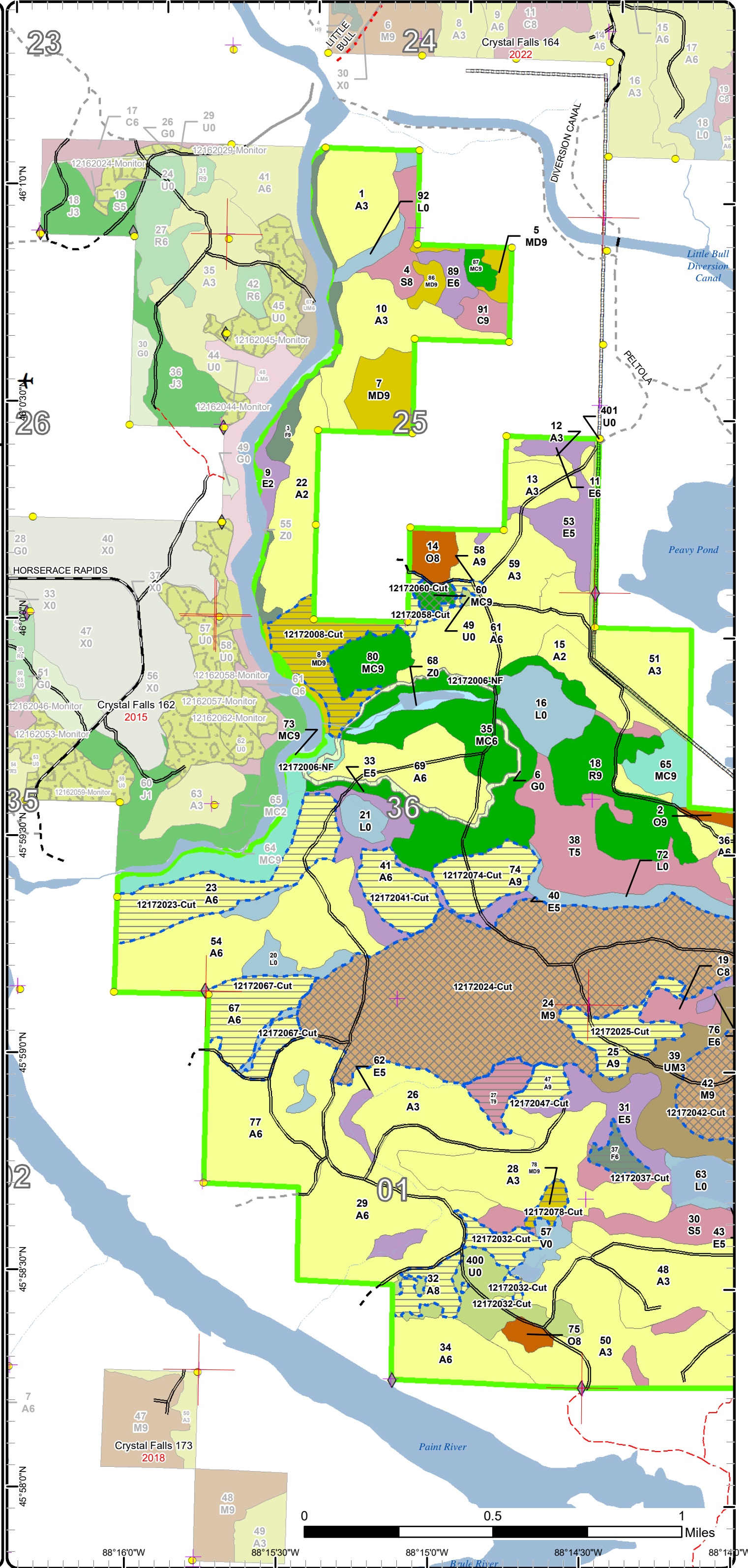


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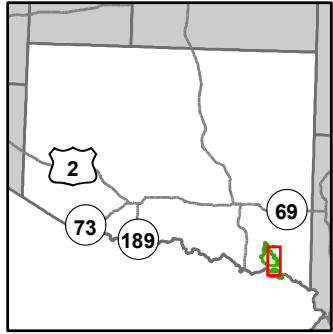
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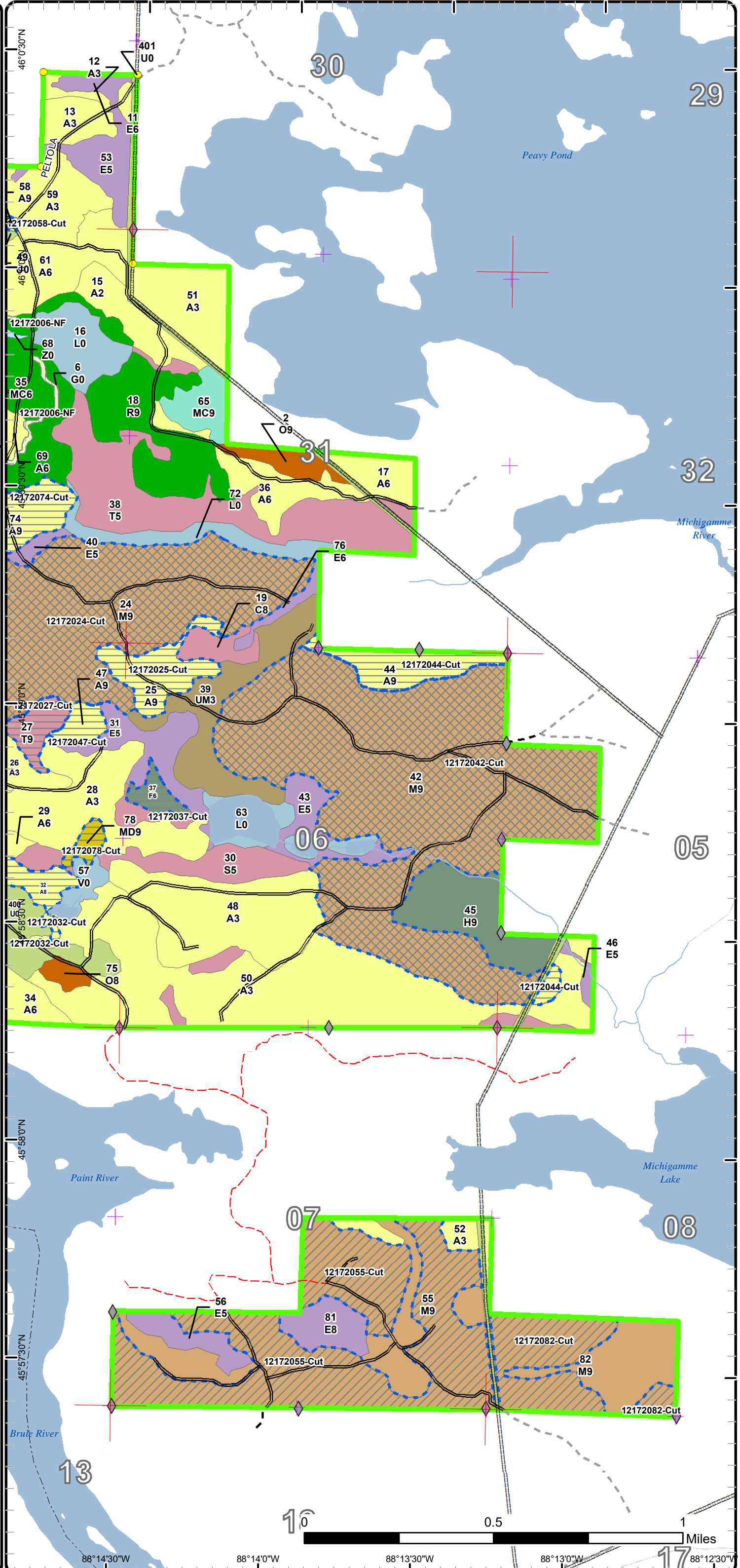
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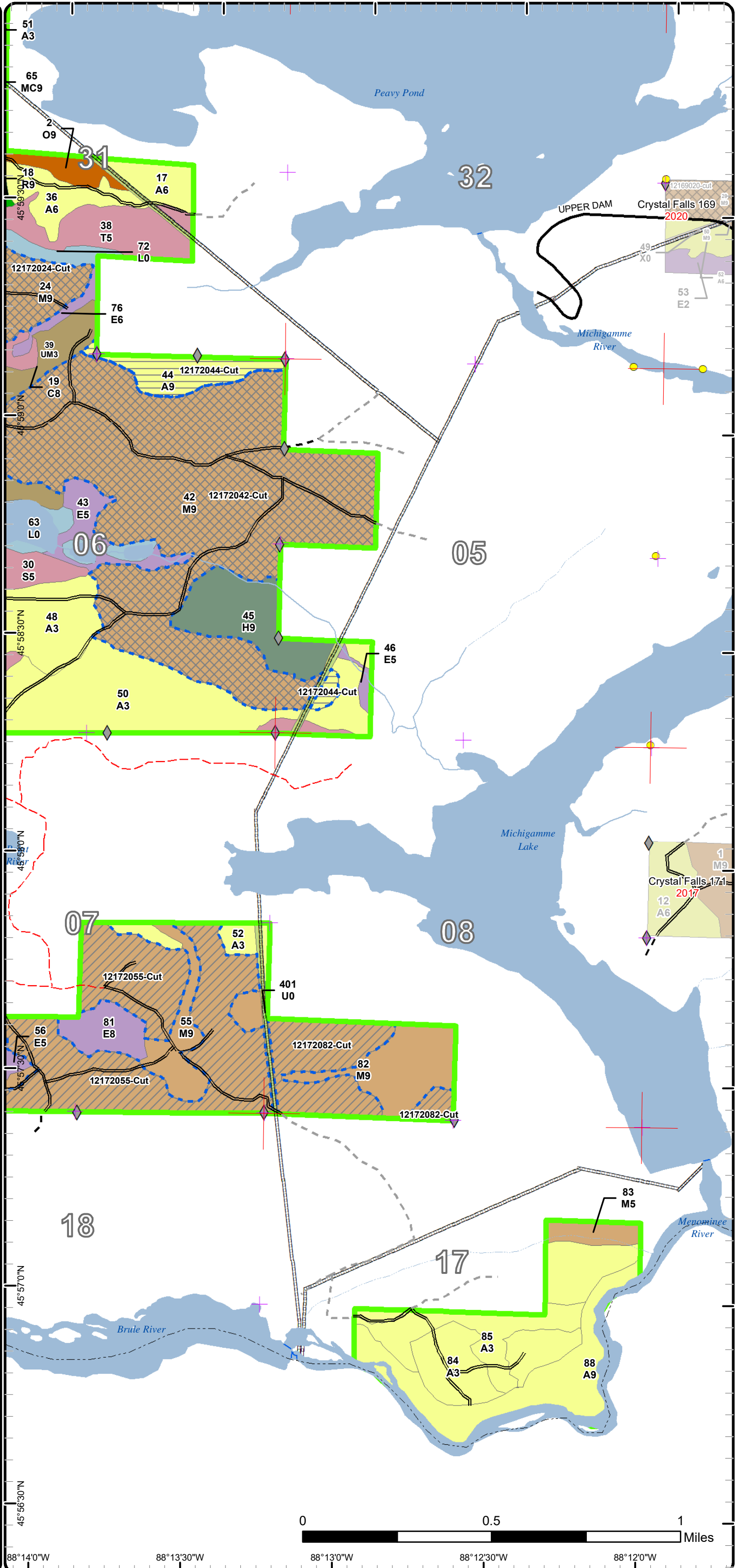
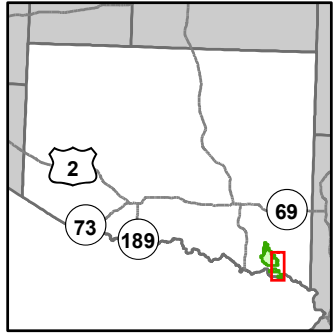


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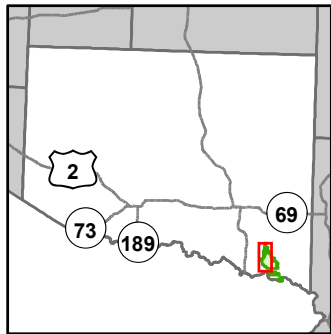


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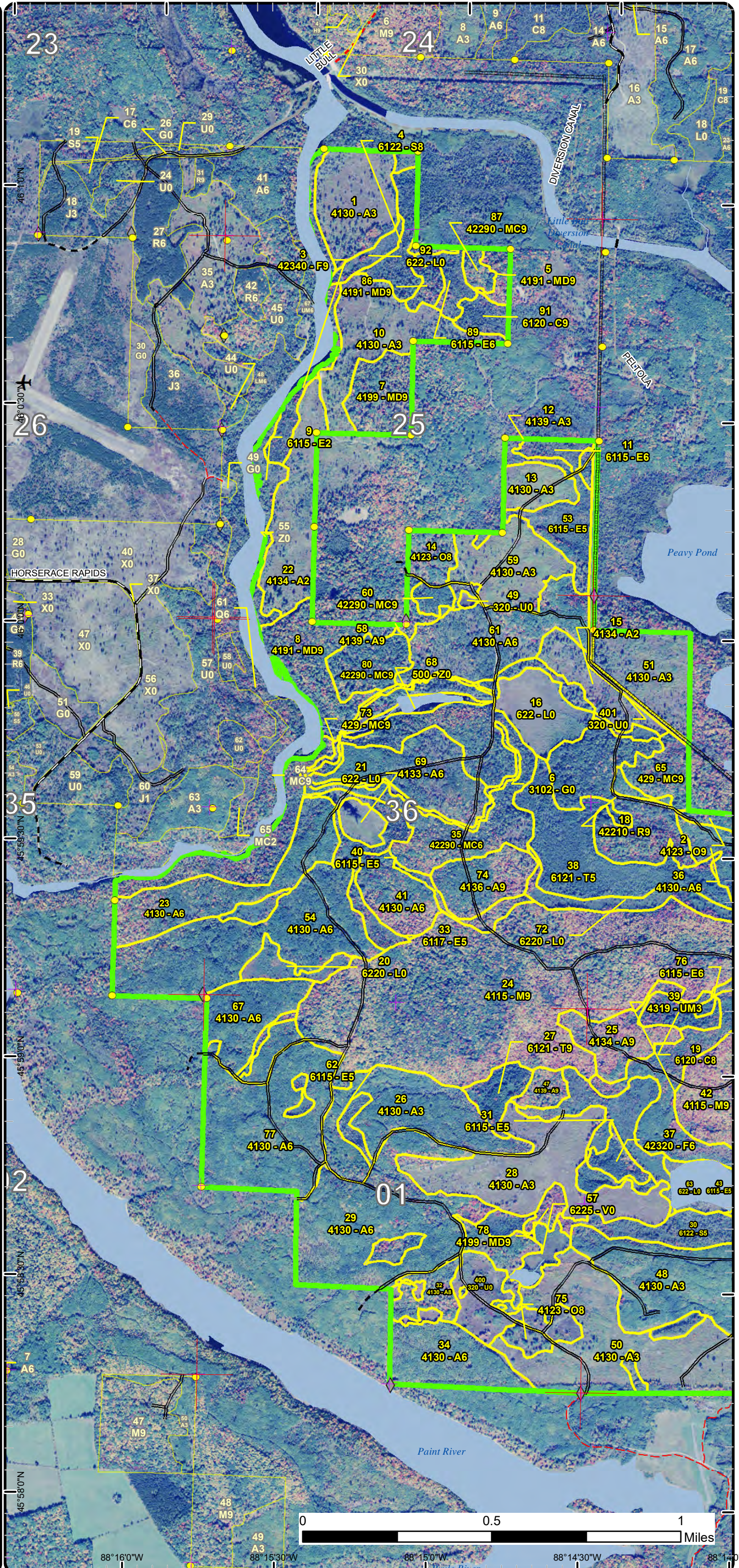


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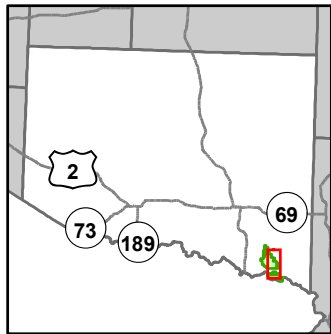
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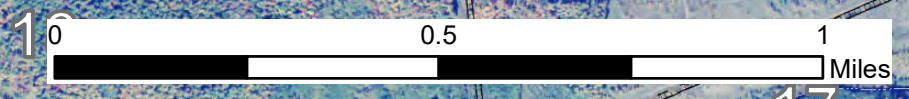
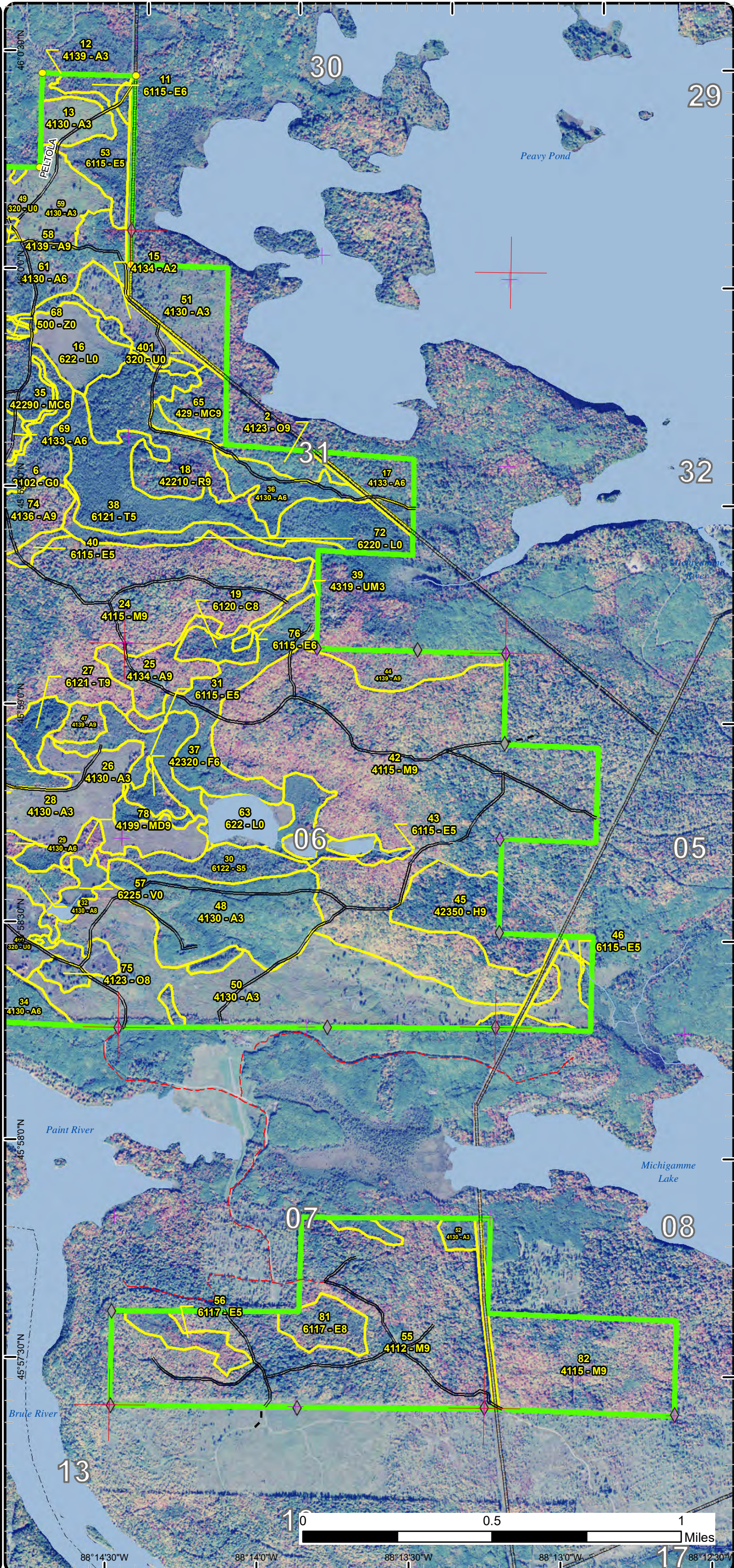
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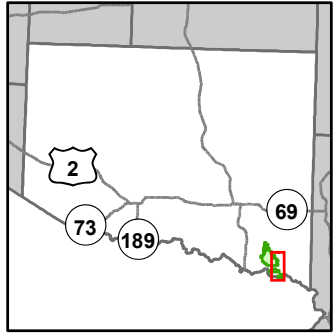


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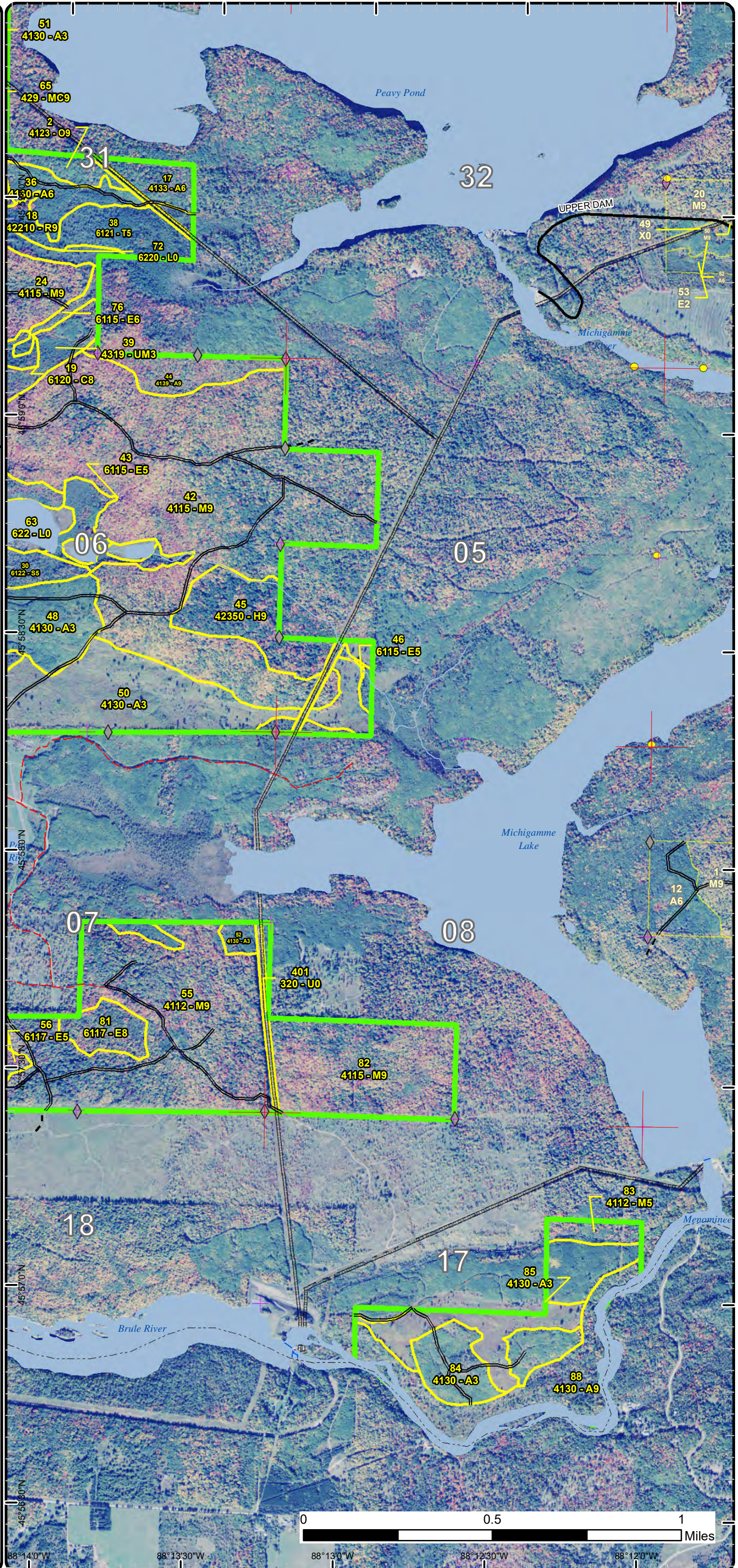


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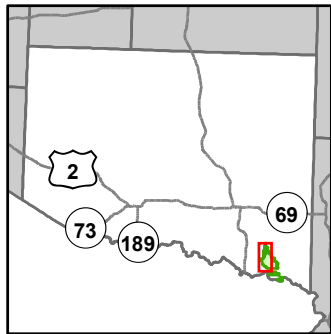


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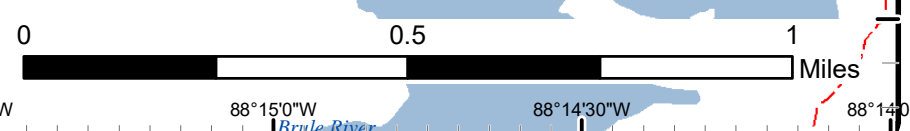
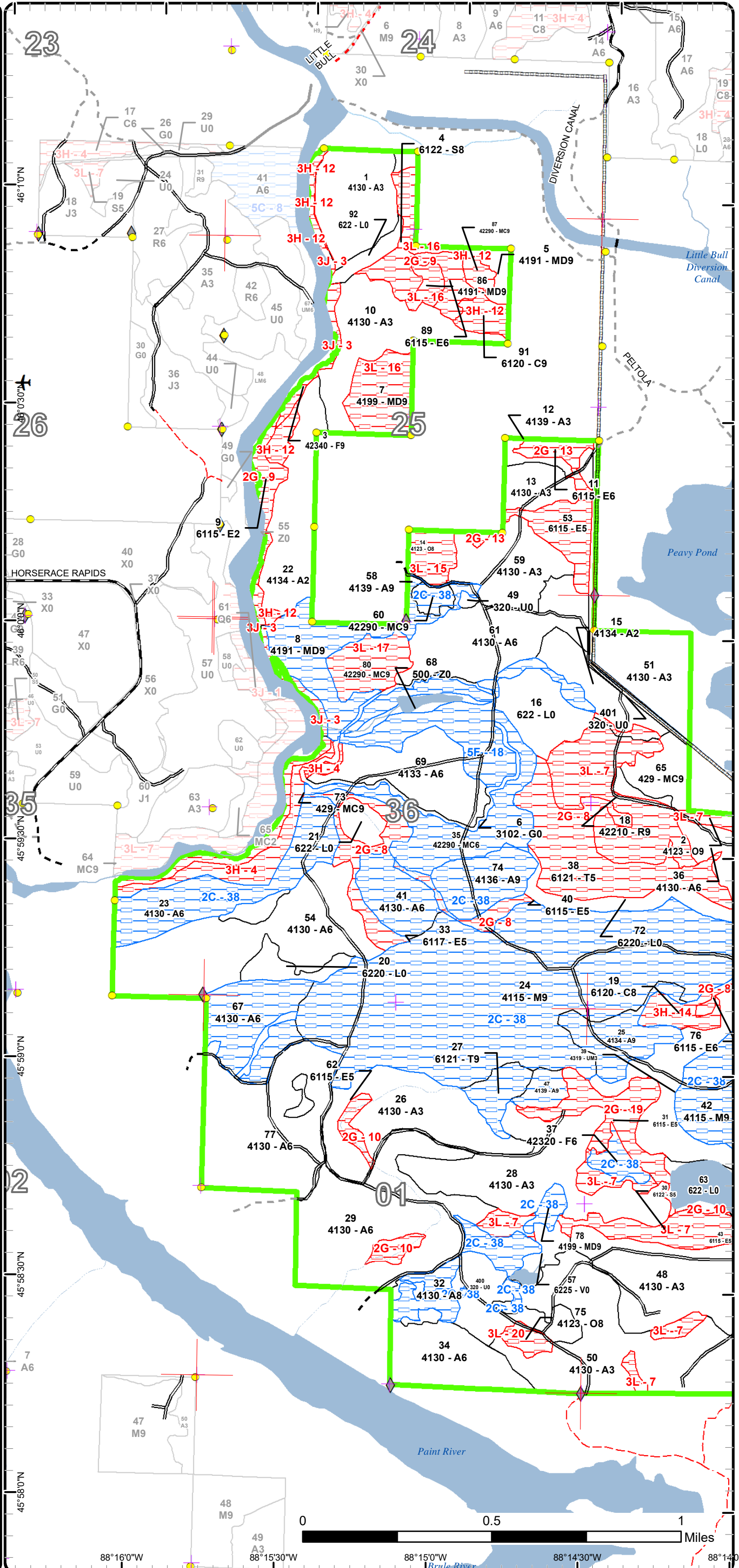


# Special Conservation Areas & Site Conditions Map

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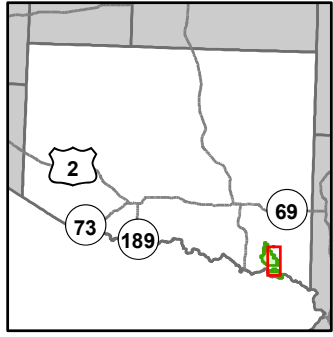


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- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes

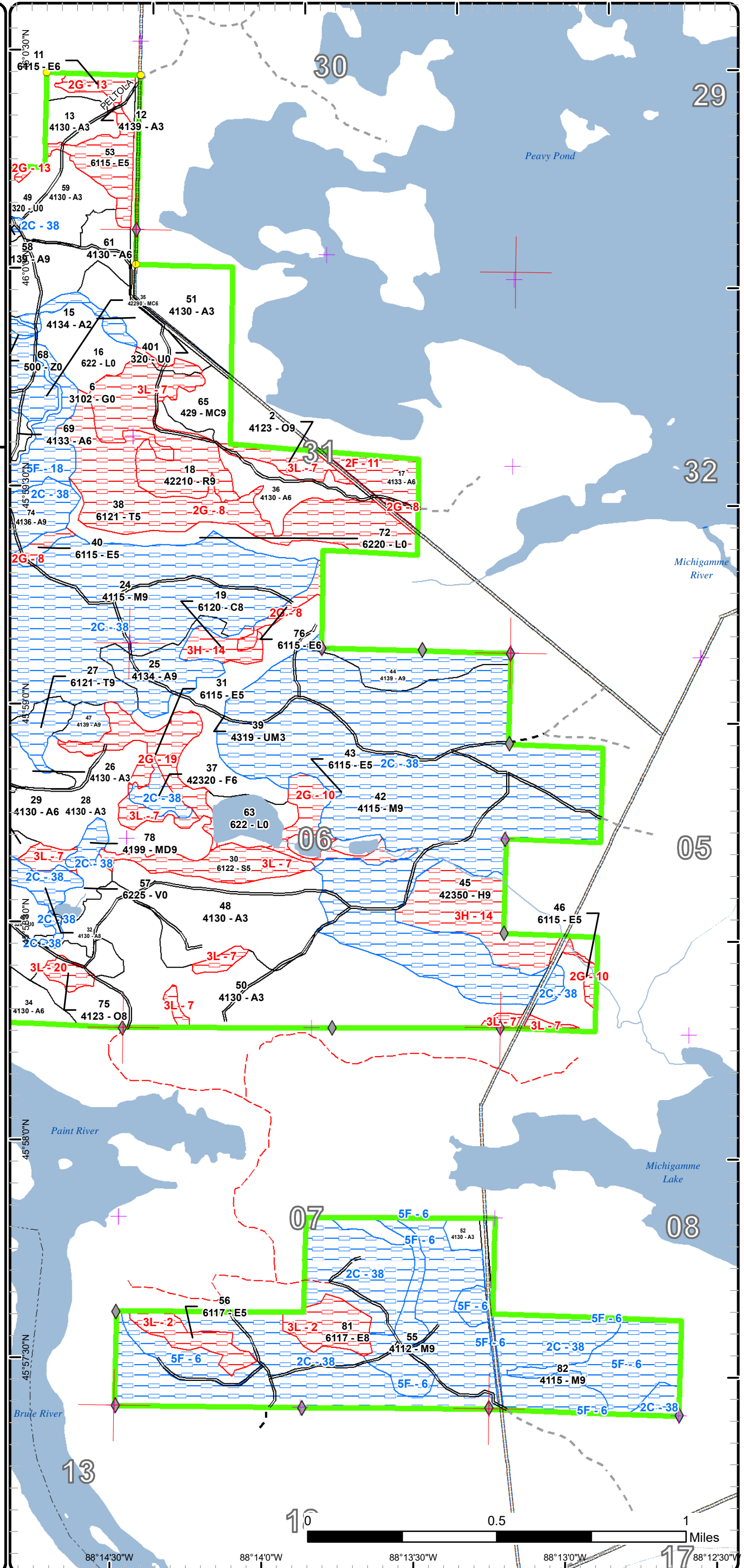


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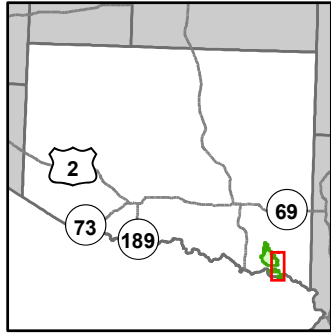


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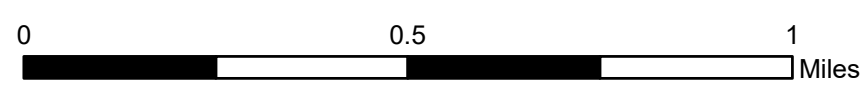
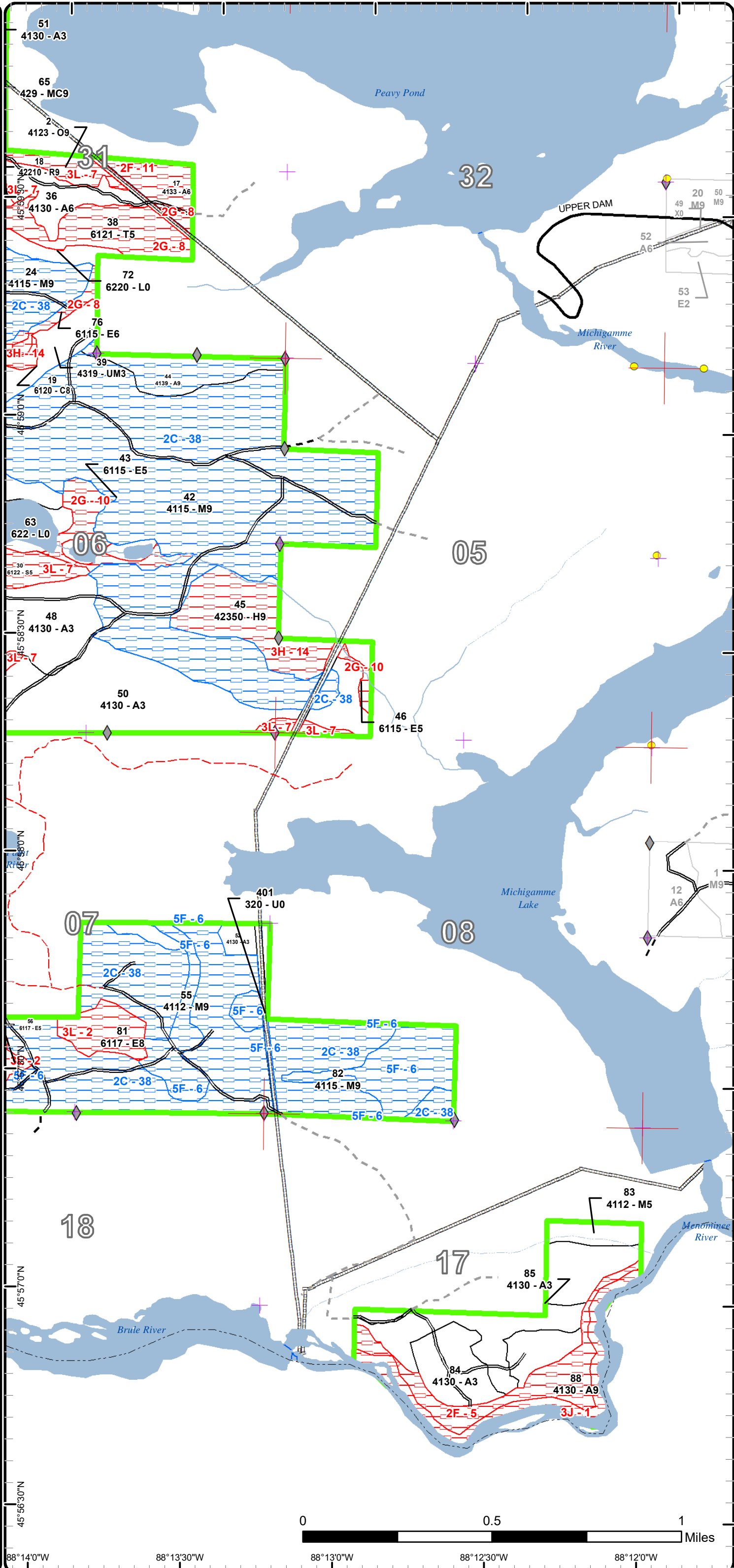


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	452	55	130	0	462	58	0	0	0	119	0	0	0	0	0	0	0	1276
Bog	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Cedar	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
Hemlock	0	0	0	0	0	0	0	0	0	0	0	38	0	0	0	0	0	0	38
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Deciduous	0	0	0	0	9	17	27	0	0	0	97	0	0	0	0	0	0	0	150
Lowland Shrub	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	57	0	0	0	0	0	0	0	57
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	72	0	0	0	0	0	0	0	72
Natural Mixed Pines	0	0	0	0	0	0	0	79	0	0	5	0	0	22	0	0	0	0	105
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	285	535	0	0	0	0	0	0	820
Oak	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	25
Red Pine	0	0	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	46
Tamarack	0	0	0	0	0	0	0	0	0	0	89	0	0	0	0	0	0	0	89
Upland Conifers	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	43
Upland Mixed Forest	0	0	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Upland Shrub	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	26	0	0	0	0	0	0	0	26
Water	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
<b>Total</b>	<b>169</b>	<b>452</b>	<b>55</b>	<b>173</b>	<b>9</b>	<b>479</b>	<b>85</b>	<b>79</b>	<b>0</b>	<b>0</b>	<b>835</b>	<b>619</b>	<b>0</b>	<b>22</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2975</b>



## Report 2 – Treatment Summary

Crystal Falls Mgt. Unit  
Year of Entry: 2021

Acres of Harvest

Compartment 172  
Total Compartment Acres: 2,975

Commercial Harvest -  
Harvests with Site Condition - 996  
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	200	0	0	0	0	0	0	0	0	200
Mixed Upland Deciduous	34	0	0	0	0	0	0	0	0	34
Natural Mixed Pines	0	5	0	0	0	0	0	0	0	5
Northern Hardwood	0	535	0	0	0	205	0	0	0	740
Tamarack	11	0	0	0	0	0	0	0	0	11
Upland Spruce/Fir	7	0	0	0	0	0	0	0	0	7
<b>Total</b>	<b>252</b>	<b>539</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>205</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>996</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	996	0	0	0	0	0	0	10	0	1006
Next Step	0	0	0	0	0	791	0	0	0	791
<b>Total</b>	<b>996</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>791</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>1797</b>



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:**

6	12172006-NF	9.9	3102 - Grass	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3102 - Grass		No
<p><u>Prescription</u> Hunter walking trail opening maintenance</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2010</p>											
8	12172008-Cut	29.5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and maple 2" DBH or greater. Cut all paper birch, jack pine, spruce and balsam with two or more pulpwood stick. No red or white pine or oak will be cut.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen, hardwood, spruce, balsam and pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Buffer river at top of slope.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
23	12172023-Cut	42.3	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mixed hardwood 2" DBH or greater, except no oak will be cut. Cut all spruce, balsam and tamarack with two or more pulpwood sticks. No red or white pine, cedar or hemlock will be cut.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen, spruce, balsam and maple.</p> <p><u>Regen:</u></p> <p><u>Other</u> Mark out any black ash drains.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

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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
<b>24 12172024-Cut</b>	236.1	4115 - Y.Birch, Hemlock NH	Sawtimber Well	101	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<u>Prescription</u> Mark hardwood down to 80 BA. Mark large diameter red maple and white ash first. No spruce, red or white pine, hemlock or oak will be cut. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mix of hardwood, pine and oak. <u>Regen:</u> <u>Other</u> Mark out ash drains. <u>Comment:</u> <u>Site Condition</u> Engineered Bridge Needed <u>Proposed Start Date:</u> 10/1 /2020										
<b>25 12172025-Cut</b>	22.4	4134 - Aspen, Spruce/Fir	Sawtimber Well	54	51-80	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<u>Prescription</u> Cut all aspen and mixed hardwood 2" DBH or greater, except oak. Cut all spruce, balsam and tamarack with two or more pulpwood stick. <u>Specs:</u> No red or white pine, cedar, hemlock or oak will be cut. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mix of aspen, spruce, balsam and maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Engineered Bridge Needed <u>Proposed Start Date:</u> 10/1 /2020										
<b>27 12172027-Cut</b>	10.9	6121 - Tamarack	Sawtimber Well	90	111-140	Harvest	Clearcut with Retention	6121 - Tamarack	Even-Aged	No
<u>Prescription</u> Cut all trees with one or more pulpwood sticks, except cut no cedar. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mix of tamarack and black spruce. <u>Regen:</u> <u>Other</u> No cedar was seen during inventory. <u>Comment:</u> <u>Site Condition</u> Engineered Bridge Needed <u>Proposed Start Date:</u> 10/1 /2020										
<b>32 12172032-Cut</b>	23.1	4130 - Aspen	Sawtimber Medium	90	51-80	Harvest	Clearcut with Retention	4131 - Aspen, Oak	Even-Aged	No
<u>Prescription</u> Cut all aspen and maple 2" DBH or greater. Cut all spruce and balsam with two or more pulpwood stick. No red or white pine or oak will be cut. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mix of aspen and oak. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Engineered Bridge Needed <u>Proposed Start Date:</u> 10/1 /2020										



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
37	12172037-Cut	6.8	42320 - Upland Spruce	Poletimber Well	90	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mixed hardwood, except oak. Cut all spruce, balsam and tamarack with two or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of spruce, aspen and maple.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
41	12172041-Cut	20.2	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mixed hardwood 2" DBH or greater. Cut all spruce, balsam and tamarack with two or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen, spruce, balsam and maple.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
42	12172042-Cut	298.7	4115 - Y.Birch, Hemlock NH	Sawtimber Well	101	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Mark to 80 BA. Mark large diameter red maple and white ash first. Favor yellow birch. No red or white pine, hemlock or oak will be cut.</p> <p><u>Specs:</u> Mark out ash drains.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of hardwood, pine and oak.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
44	12172044-Cut	23.7	4139 - Aspen, Mixed Deciduous	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> Cut all aspen and mixed hardwood 2"DBH or greater, except oak. Cut all spruce, balsam, tamarack and jack pine with two or more pulpwood stick. Mark one large aspen, cherry or birch per acre as wildlife leave trees when cruising stand. No red or white pine, cedar, hemlock or oak will be cut. Mark out ash drains.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mix of aspen, spruce and balsam.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											



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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47	12172047-Cut	6.9	4139 - Aspen, Mixed Deciduous	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
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Prescription Cut all aspen and mixed hardwood 2" DBH or greater. Cut all spruce, balsam and tamarack with one or more pulpwood sticks. No red or white pine, cedar, hemlock or oak will be cut.

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

Acceptable Mix of aspen, spruce, balsam and maple.  
Regen:

Other  
Comment:

Site Condition Engineered Bridge Needed

Proposed Start Date: 10/1 /2020

55	12172055-Cut	159.9	4112 - Maple, Beech, Cherry Association	Sawtimber Well	91	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
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Prescription Thin to 80 BA. No hemlock, cedar, pine or oak will be cut. Leave some large diameter trees for wildlife. Mark out ash drains and intermittent stream.

Next Step  
Treatments:

Acceptable  
Regen:

Other  
Comment:

Site Condition Engineered Bridge Needed

Proposed Start Date: 10/1 /2020

58	12172058-Cut	6.1	4139 - Aspen, Mixed Deciduous	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription Cut all aspen and maple 2" DBH or greater. Cut all paper birch, jack pine, spruce and balsam with two or more pulpwood stick. No red or white pine or oak will be cut.

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

Acceptable Mix of aspen, oak and pine.  
Regen:

Other  
Comment:

Site Condition Engineered Bridge Needed

Proposed Start Date: 10/1 /2020

60	12172060-Cut	4.5	42290 - Natural Mixed Pine	Sawtimber Well	90	141- 170	Harvest	Single Tree Selection	42250 - Pine, Oak	Even-Aged	No
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Prescription Mark pine to 120 BA. Cut all aspen and maple with one or more pulpwood stick Cut all spruce, balsam and paper birch with two or more pulpwood sticks. No white pine or oak will be cut. Leave large over mature red pine.

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

Acceptable Mix of pine and oak.  
Regen:

Other  
Comment:

Site Condition Engineered Bridge Needed

Proposed Start Date: 10/1 /2020

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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
<b>67 12172067-Cut</b>	33.1	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all aspen and mixed hardwood 2" DBH or greater, except cut no oak. Cut all spruce, balsam and tamarack with two or more pulpwood sticks. Mark one large aspen, birch or cherry per acre as wildlife leave trees when cruising stand. No red or white pine, cedar, hemlock or oak will be cut.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of aspen, spruce, balsam and maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>74 12172074-Cut</b>	22.1	4136 - Aspen, Mixed Conifer	Sawtimber Well	54	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all aspen and mixed hardwood 2" DBH or larger, except cut no oak. Cut all spruce, balsam, tamarack and jack pine with two or more pulpwood sticks. Mark one large aspen, birch or cherry per acre as wildlife leave trees when cruising stand. No red or white pine, cedar, hemlock or oak will be cut.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of aspen, pine and spruce.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>78 12172078-Cut</b>	4.6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all aspen and mixed hardwood, except oak. Cut all spruce, balsam and tamarack with two or more pulpwood stick. Mark one large aspen, birch or cherry per acre as wildlife leave trees when cruising stand. No red or white pine, cedar, hemlock or oak will be cut.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Mix of aspen, maple and spruce.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>82 12172082-Cut</b>	45.3	4115 - Y.Birch, Hemlock NH	Sawtimber Well	91	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription Specs:</u> Thin to 80 BA. Leave some large diameter trees as wildlife trees. Leave spruce and balsam with less than two pulpwood sticks. No pine, cedar, hemlock or oak will be cut. Mark out ash drains.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Engineered Bridge Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										



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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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Total Treatment Acreage Proposed: 1006.1



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions							
		With Condition	Not Available		2C	5F	2F	2G	3H	3J	3L	
1275	1003	200	73	Aspen	200		42				30	
8	8	0	0	Bog								
17	0	0	17	Cedar					17			
38	0	0	38	Hemlock					38			
10	10	0	0	Herbaceous Openland								
150	0	0	150	Lowland Deciduous				122				28
98	98	0	0	Lowland Shrub								
57	0	0	57	Lowland Spruce/Fir				14				42
72	5	34	33	Mixed Upland Deciduous	34						4	28
106	0	84	22	Natural Mixed Pines	4	79			5			17
820	9	811	0	Northern Hardwood	740	71						
25	0	0	25	Oak								25
46	0	0	46	Red Pine								46
89	0	11	78	Tamarack	11			78				
43	14	0	29	Upland Conifers					19	10		
43	43	0	0	Upland Mixed Forest								
46	46	0	0	Upland Shrub	0							
26	0	7	19	Upland Spruce/Fir	7				5	14		
6	6	0	0	Water								
2,975	1,243	1,146	586	Total Forested Acres	996	150	42	214	83	59		188
	42%	39%	20%	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	3J: Water quality / BMPs (stream, river, or lake)	30	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments:							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
 Scott Sebero : Examiner

Compartment: 172  
 Year of Entry: 2021



2	Unavailable	3L: Other wildlife concerns	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	19	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	Unavailable	2F: Too steep	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	Available	5F: Evaluated for Forest Health Considerations	71	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	Unavailable	3L: Other wildlife concerns	99	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
 Scott Sebero : Examiner

Compartment: 172  
 Year of Entry: 2021



8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	107	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	32	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
11	Unavailable	2F: Too steep	13	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Sharp rock outcrops. inoperable.							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	18	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
 Scott Sebero : Examiner

Compartment: 172  
 Year of Entry: 2021



14	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
15	Unavailable	3L: Other wildlife concerns	10	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
16	Unavailable	3L: Other wildlife concerns	28	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
17	Unavailable	3L: Other wildlife concerns	17	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
18	Available	5F: Evaluated for Forest Health Considerations	79	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Crystal Falls Mgt. Unit  
 Scott Sebero : Examiner

Compartment: 172  
 Year of Entry: 2021



20	<b>Unavailable</b>	<b>3L: Other wildlife concerns</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
38	<b>Available</b>	<b>2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)</b>	996	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

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
<b>Comments</b>				



**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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																													
1	4130 - Aspen	Sapling Well	34.6	9	Immature	N/A	Island North t-sale (12-051-10) Scattered log sized pine.																													
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16	622 - Lowland Shrub	Nonstocked	22.9		Unspecified	No	OPIC - FMD: OI Stand Year Origin was																																					
17	4133 - Aspen, Mixed Pine	Poletimber Well	13.4	53	51-80	N/A	Very rough rock outcrops and drains.																																					
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18	42210 - Natural Red Pine	Sawtimber Well	46.3	101	141-170	N/A																																						
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19	6120 - Lowland Cedar	Sawtimber Medium	9.3	90	51-80	N/A																																						
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20	6220 - Alder/willow	Nonstocked	18.2	0	Unspecified	No	OPIC - FMD: OI Stand Year Origin was 1974																																					
21	622 - Lowland Shrub	Nonstocked	7.2		Unspecified	No	OPIC - FMD: Lowland with a small beaver pond.																																					
22	4134 - Aspen, Spruce/Fir	Sapling Medium	38.0	9	Immature	N/A	Island North t-sale (12-051-10)																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
23	4130 - Aspen	Poletimber Well	42.3	46	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		90	Pole/Log/Sap	8	46	Hazelnut (American)	High	5 - 10 feet	Tall Shrub
24	4115 - Y.Birch, Hemlock NH	Sawtimber Well	236.1	101	141-170	N/A	OPIC - FMD: STAND THINNED IN 1999		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Hemlock		20	Log/XLog	16		White Ash	Medium	10 - 20 feet	Sapling
Yellow Birch		10	Log/Pole	12	101				
Sugar Maple		25	Log/Pole/Sap	12	101				
Red Maple		35	Log/Pole/Sap	14	101				
25	4134 - Aspen, Spruce/Fir	Sawtimber Well	22.4	54	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		50	Log/Pole	10	54	Balsam Fir	Full	Variable	Sapling
Red Maple		30	Log/Pole/Sap	10	54				
Black Spruce		10	Log/Pole/Sap	10					
Balsam Fir		10	Pole/Sap/Log	8					
26	4130 - Aspen	Sapling Well	49.8	25	Immature	N/A	Ducks Head t-sale (12-021-91)		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Sapling/Pole	4	25	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Balsam Fir		10	Sapling/Pole	4					
Balsam Poplar		10	Sapling/Pole	4	25				
Quaking Aspen		65	Sapling/Pole	4	25				
27	6121 - Tamarack	Sawtimber Well	10.9	90	111-140	N/A	Stand fairly dry. Red maple saps along west side.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Tamarack		55	Log/Pole/Sap	12	90	Red Maple	Medium	10 - 20 feet	Sapling
Black Spruce		45	Log/Pole/Sap	10	90				
28	4130 - Aspen	Sapling Well	62.6	9	Immature	N/A	Island South t-sale (12-052-10)		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Sapling	1	9	Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Balsam Poplar		10	Sapling	1	9				
White Spruce		10	Sapling/Pole	2					
Quaking Aspen		65	Sapling	1	9				
29	4130 - Aspen	Poletimber Well	80.5	41	81-110	N/A	Cutting Report (16-73)		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole/Log/Sap	8		Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		90	Pole/Log/Sap	8	41				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
30	6122 - Black Spruce	Poletimber Medium	42.3	90	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		90	Pole/Sap/Log	8	90	Tag Alder	Medium	5 - 10 feet	Tall Shrub
31	6115 - Lowland Ash	Poletimber Medium	24.1	90	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Tamarack		10	Pole/Sap/Log	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce		20	Pole/Sap/Log	6					
Black Ash		70	Pole/Sap/Log	8	90				
32	4130 - Aspen	Sawtimber Medium	23.2	90	51-80	N/A	No oak or pine to be cut.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		15	Log/Pole/Sap	12		Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		85	Log/Pole/Sap	10	90				
33	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	17.4	46	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Ash		50	Pole/Sap/Log	8	46	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Balsam Poplar		15	Pole/Log/Sap	8	46				
Quaking Aspen		15	Pole/Log/Sap	8	46				
Black Spruce		15	Pole/Sap/Log	8					
34	4130 - Aspen	Poletimber Well	31.5	41	81-110	N/A	Cutting Report (16-73)		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		10	Pole/Log/Sap	8					
Quaking Aspen		90	Pole/Log/Sap	8	41				
35	42290 - Natural Mixed Pine	Poletimber Well	79.1	61	111-140	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Pine		45	Pole/Sap/Log	8	61	White Pine	Medium	Variable	Sapling
Red Pine		30	Log/Pole/Sap	10					
Quaking Aspen		10	Pole/Sap/Log	6					
36	4130 - Aspen	Poletimber Well	22.8	43	81-110	N/A	10-67-A cutting report.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		10	Pole/Sap/Log	8		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen		80	Pole/Log/Sap	8	43				
37	42320 - Upland Spruce	Poletimber Well	6.8	90	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		85	Pole/Log/Sap	8	90	Black Spruce	Low	Variable	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
38	6121 - Tamarack	Poletimber Medium	78.0	90	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		10	Pole/Sap/Log	8	90	Black Ash	Low	5 - 10 feet	Sapling
Tamarack		90	Pole/Sap/Log	8	90	Tag Alder	High	5 - 10 feet	Tall Shrub
39	4319 - Mixed Upland Forest	Sapling Well	43.0	25	Immature	N/A	OPIC - FMD: Pockets of nice spruce regen.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
White Spruce		50	Sapling/Pole	4	25	Tamarack	Low	Variable	Sapling
Quaking Aspen		40	Sapling/Pole	4	25				
Red Maple		10	Sapling/Pole	4	25				
40	6115 - Lowland Ash	Poletimber Medium	6.3	90	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		10	Pole/Sap/Log	8		Black Ash	Medium	Variable	Sapling
Red Maple		10	Log/Pole/Sap	10					
Black Ash		80	Pole/Sap/Log	8	90				
41	4130 - Aspen	Poletimber Well	20.2	46	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		10	Pole/Sap/Log	8		Red Maple	Medium	10 - 20 feet	Sapling
Bigtooth Aspen		10	Pole/Sap/Log	8	46	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Red Maple		20	Pole/Sap/Log	8					
Quaking Aspen		50	Pole/Log/Sap	8	46				
42	4115 - Y.Birch, Hemlock NH	Sawtimber Well	298.7	101	141-170	N/A	Stand has many low drains and hemlock pockets. THINNED STAND IN 1996		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Hemlock		20	Log/XLog	16		White Ash	High	10 - 20 feet	Sapling
Yellow Birch		10	Log/Pole	14	101				
Sugar Maple		20	Log/Pole/Sap	12	101				
Red Maple		40	Log/Pole/Sap	14	101				
43	6115 - Lowland Ash	Poletimber Medium	15.6	90	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		10	Pole/Sap/Log	6		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash		90	Pole/Sap/Log	6	90				
44	4139 - Aspen, Mixed Deciduous	Sawtimber Well	23.7	90	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		55	Log/Pole	10	90	Black Ash	Medium	10 - 20 feet	Sapling
Red Maple		30	Log/Pole/Sap	10	90	Balsam Fir	Medium	Variable	Sapling
Balsam Fir		15	Pole/Sap/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																	
<b>45</b>	42350 - Upland Hemlock	Sawtimber Well	37.6	101	141-170	N/A																																		
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<b>46</b>	6115 - Lowland Ash	Poletimber Medium	2.8	90	1-50	N/A																																		
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<b>48</b>	4130 - Aspen	Sapling Well	65.6	25	Immature	N/A	Aspen on a Rock t-sale (12-022-91)																																	
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<b>49</b>	320 - Upland Shrub	Nonstocked	1.0	0	Unspecified	No	OPIC - FMD: Very nice white pine regen.																																	
<b>50</b>	4130 - Aspen	Sapling Well	152.1	8	Immature	N/A	Island South t-sale. (12-52-10)																																	
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<b>51</b>	4130 - Aspen	Sapling Well	31.0	9	Immature	N/A	Stand Year Origin was 2011																																	
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<b>52</b>	4130 - Aspen	Sapling Well	10.7	22	Immature	N/A	East Bull Hardwoods. (2-96-01)																																	
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<b>53</b>	6115 - Lowland Ash	Poletimber Medium	18.0	54	51-80	N/A																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
54	4130 - Aspen	Poletimber Well	75.6	46	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		90	Pole/Log/Sap	8	46	Hazelnut (American)	High	5 - 10 feet	Tall Shrub
55	4112 - Maple, Beech, Cherry Association	Sawtimber Well	198.9	91	111-140	N/A	OPIC - FMD: STAND THINNED 1998. Some areas with low BA. Thin only areas where BA is high enough that release is needed.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Yellow Birch		10	Log/Pole	10		Quaking Aspen	Medium	10 - 20 feet	Sapling
Sugar Maple		35	Log/Pole/Sap	10	91				
Red Maple		50	Log/Pole/Sap	10	91				
56	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	12.3	91	51-80	N/A	Wet.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		25	Pole/Log/Sap	8	91	Tag Alder	High	5 - 10 feet	Tall Shrub
Yellow Birch		10	Pole/Log	8	91				
Black Spruce		10	Pole/Sap/Log	8					
Tamarack		10	Pole/Sap/Log	8					
Black Ash		45	Pole/Sap/Log	8	91				
57	6225 - Bog	Nonstocked	7.8		Unspecified	No	OPIC - FMD: OI Stand Year Origin was		
58	4139 - Aspen, Mixed Deciduous	Sawtimber Well	6.1	90	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		10	Log/Pole/Sap	14	90	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		50	Log/Pole	10	90				
Red Maple		30	Log/Pole/Sap	10	90				
59	4130 - Aspen	Sapling Well	32.0	9	Immature	N/A	Island North t-sale (12-051-10)		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Sapling	1	9	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen		80	Sapling	1	9				
60	42290 - Natural Mixed Pine	Sawtimber Well	4.5	90	141-170	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Oak		10	Log/Pole/Sap	12		Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
Red Pine		45	Log/Pole/Sap	14	90				
White Pine		35	Log/Pole/Sap	16	90				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>61</b>	4130 - Aspen	Poletimber Well	49.2	46	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Pole/Sap/Log	8		White Pine	Medium	10 - 20 feet	Sapling
Balsam Fir		10	Pole/Sapling	6					
Quaking Aspen		75	Pole/Log/Sap	8	46				
<b>62</b>	6115 - Lowland Ash	Poletimber Medium	8.9	90	51-80	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Ash		60	Pole/Sap/Log	8	90	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce		35	Pole/Sap/Log	8	90				
<b>63</b>	622 - Lowland Shrub	Nonstocked	23.1	0	Unspecified	No	OPIC - FMD: Pokets of dead black ash.		
<b>65</b>	429 - Mixed Upland Conifers	Sawtimber Well	14.0	91	81-110	N/A	Rough rocky ground.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		30	Log/Pole/Sap	12	91	Quaking Aspen	Low	10 - 20 feet	Sapling
White Pine		20	Log/Pole/Sap	12	91	White Pine	Low	Variable	Sapling
Red Oak		20	Log/Pole/Sap	10	91				
Red Maple		15	Log/Pole/Sap	10					
Balsam Fir		10	Pole/Sapling	6					
<b>67</b>	4130 - Aspen	Poletimber Well	33.1	46	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Maple		10	Log/Pole/Sap	10	46	Hazelnut (American)	High	5 - 10 feet	Tall Shrub
Quaking Aspen		90	Pole/Sap/Log	8	46				
<b>68</b>	500 - Water	Nonstocked	6.5		Unspecified	No	Beaver pond.		
<b>69</b>	4133 - Aspen, Mixed Pine	Poletimber Well	36.6	46	81-110	N/A			
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Quaking Aspen		70	Pole/Sap/Log	8	46	Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
White Pine		20	Pole/Sap/Log	8		White Pine	High	Variable	Sapling
Red Maple		10	Pole/Sap/Log	8					
<b>72</b>	6220 - Alder/willow	Nonstocked	18.8	0	Unspecified	No	OPIC - FMD: OI Stand Year Origin was 1930		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
73	429 - Mixed Upland Conifers	Sawtimber Well	29.1	90	81-110	N/A	Buffer for Paint River.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		20	Pole/Log/Sap	8	90	Balsam Fir	
White Pine		20	Log/Pole/Sap	14	90	Medium	
Red Maple		20	Log/Pole/Sap	10	90	Variable	
Balsam Fir		10	Pole/Sap/Log	8		Sapling	
White Spruce		30	Log/Pole/Sap	10	90		
74	4136 - Aspen, Mixed Conifer	Sawtimber Well	22.1	54	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		55	Log/Pole	10	54	White Pine	
Red Maple		15	Log/Pole/Sap	10		Medium	
Paper Birch		10	Log/Pole/Sap	10		Variable	
White Spruce		10	Pole/Sap/Log	8		Sapling	
White Pine		10	Log/Pole/Sap	10			
75	4123 - Red Oak	Sawtimber Medium	4.9	91	51-80	N/A	Island South t-sale. (12-52-10)
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Oak		100	Log/Pole/Sap	14	91	Hazelnut (American)	
						Medium	
						5 - 10 feet	
						Tall Shrub	
						Quaking Aspen	
						Medium	
						10 - 20 feet	
						Sapling	
76	6115 - Lowland Ash	Poletimber Well	5.3	90	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		10	Pole/Sap/Log	8	90	Tag Alder	
Black Ash		90	Pole/Sap/Log	8	90	Medium	
						5 - 10 feet	
						Tall Shrub	
77	4130 - Aspen	Poletimber Well	70.2	46	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Log/Pole/Sap	10	46	Hazelnut (American)	
Quaking Aspen		90	Pole/Sap/Log	8	46	High	
						5 - 10 feet	
						Tall Shrub	
78	4199 - Other Mixed Upland Deciduous	Sawtimber Well	4.6	90	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		55	Log/Pole/Sap	10	90	White Spruce	
Quaking Aspen		35	Log/Pole/Sap	10	90	Low	
						Variable	
						Sapling	
80	42290 - Natural Mixed Pine	Sawtimber Well	17.4	120	141-170	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Quaking Aspen		10	Pole/Log/Sap	8		White Pine	
Red Pine		35	Log/Pole/Sap	12		Medium	
White Pine		50	Log/Pole/Sap	16	120	10 - 20 feet	
						Sapling	
						Balsam Fir	
						Medium	
						10 - 20 feet	
						Sapling	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**81** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Medium 16.0 91 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	15	Log/Pole	12		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	10	Log/Pole/Sap	10					
Red Maple	20	Log/Pole/Sap	10	91				
Yellow Birch	10	Log/Pole	10	91				
Black Ash	40	Pole/Sap/Log	8	91				

**82** 4115 - Y.Birch, Hemlock NH Sawtimber Well 77.5 91 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	10	Log/Pole	16		Quaking Aspen	Medium	10 - 20 feet	Sapling
Yellow Birch	10	Log/Pole	10	91				
Sugar Maple	35	Log/Pole/Sap	10	91				
Red Maple	40	Log/Pole/Sap	10	91				

OPIC - FMD: STAND THINNED 1998. Areas of saplings where BA is too low to thin. Thin only areas where thinning will release merchantable trees.

**83** 4112 - Maple, Beech, Cherry Association Poletimber Medium 9.3 90 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	30	Pole/Log/Sap	8		Paper Birch	Medium	10 - 20 feet	Sapling
Sugar Maple	70	Pole/Log/Sap	8	90				

**84** 4130 - Aspen Sapling Well 54.6 19 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	100	Sapling/Pole	4	19	Ironwood	Low	Variable	Sapling

**85** 4130 - Aspen Sapling Well 29.2 9 Immature N/A Island South t-sale (52-10-01)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	100	Sapling	1	9	Red Maple	Low	Variable	Sapling

**86** 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 6.6 90 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	15	Log/Pole/Sap	16		Hazelnut (American)	Medium	5 - 10 feet	Tall Shrub
White Spruce	20	Log/Pole/Sap	12	90				
Red Maple	30	Log/Pole/Sap	12	90				
Quaking Aspen	35	Log/Pole/Sap	12	90				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
<b>87</b>	42290 - Natural Mixed Pine	Sawtimber Well	4.5	120	141-170	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		10	Log/Pole/Sap	10		White Spruce	
Red Pine		40	Log/XLog/Pole	16	120	Low	
White Pine		45	XLog/Log/Pole	18	120	Variable	
						Sapling	
<b>88</b>	4130 - Aspen	Sawtimber Well	59.2	90	51-80	N/A	Steep buffer along Brule River.
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Red Maple		20	Log/Pole/Sap	10		Hazelnut (American)	
Quaking Aspen		80	Log/Pole/Sap	10	90	Medium	
						5 - 10 feet	
						Tall Shrub	
<b>89</b>	6115 - Lowland Ash	Poletimber Well	8.6	54	51-80	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Ash		85	Pole/Sap/Log	8	54	Tag Alder	
						Medium	
						5 - 10 feet	
						Tall Shrub	
<b>91</b>	6120 - Lowland Cedar	Sawtimber Well	7.5	90	81-110	N/A	
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	
Black Spruce		10	Pole/Sapling	6		Tag Alder	
Black Ash		20	Pole/Sapling	6		Medium	
Northern White Cedar		65	Log/Pole	12	90	5 - 10 feet	
						Tall Shrub	
<b>92</b>	622 - Lowland Shrub	Nonstocked	7.7		Unspecified	No	OPIC - FMD: Lowland draining to Paint River.
<b>400</b>	320 - Upland Shrub	Nonstocked	27.1		Unspecified	No	OPIC - FMD: Grass opening.
<b>401</b>	320 - Upland Shrub	Nonstocked	17.8		Unspecified	No	Power line.