



# Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63027

Entry Year 2021

Acreage: 1,214

County Osceola

Management Area: Evert Block

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**Revision Date:** 2019-06-11

**Stand Examiner:** James Park

**Legal Description:**

T19N R08W, sections 18, 29-32

**Identified Planning Goals:**

Vegetation management in the Evert Block management area will provide timber products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period years will focus on balancing the age-class distributions for aspen and regenerating oak. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within this 10-year planning period are the need to regenerate oak, the need to continue to balance aspen age classes, the need to diversify forest cover types and an increase in recreation pressure.

**Soil and topography:**

Mostly rolling topography with some steep spots. Soils are mostly Montcalm Sand and loams, Graycalm Sands, and some McBride Sands and Loams.

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

Private ownership to the north and east of the compartment. State ownership to the south and west of the compartment with some private mixed in. Some farming nearby with a mixture of cabins and year-round homes. Many lakes used for various recreational opportunities in the area.

**Unique Natural Features:**

Forty acres of this compartment contains water frontage on Big Long Lake.

The Michigan Natural Features Inventory lists the Common Loon, Blanding's Turtle, as having occurred in this compartment. Historical records exist for Wood Turtle and Slippershell Mussel as having occurred in this compartment. This compartment has the potential for the Spotted Turtle, Blanding's Turtle, and Secretive Locust.

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

None known.

**Special Management Designations or Considerations:**

None known.

**Watershed and Fisheries Considerations:**

There are a few lakes and no streams in this compartment.  
There are no fisheries concerns with the proposals for this Compartment.

**Wildlife Habitat Considerations:**

Featured wildlife species are deer, ruffed grouse and pileated woodpecker. Woodcock as well as a variety of species utilizing early-successional communities and young forests will also benefit from management in this area. Management objectives are to maintain and regenerate oak stands, and to maintain the aspen type with age class diversity to provide continually available early-successional habitat for hunting and viewing opportunities.

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

Sections 18 & 29-32, T19N-R8W, Osceola County The nearest active sand/gravel pit is located two miles northwest of the parcels in Section 18. There appears to some good sand & gravel potential within the compartment. There has been past oil & gas production in every direction within six miles of the compartment. Most of the traditionally productive formations within the central Michigan Basin have been tested in the area around the compartment without success. However, there are active mineral leases in the area including one active lease within the compartment. The majority of these leases are due to expire in August 2019. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

Most of the compartment is easily accessible. Access to stands 36 and 40 will need to be carefully planned in order to reach them for a potential timber sale.

**Survey Needs:**

None known.

**Recreational Facilities and Opportunities:**

This area is used heavily for hunting, camping, fishing (on accessible lakes), and ORV trail riding and scramble area are located in the compartment. Snowmobiling, horseback riding, berry and mushroom picking are known to occur in this compartment. There is a designated State campground near this compartment.

**Fire Protection:**

This area is mostly aspen & hardwoods. Much of the state owned land within the compartment would allow for good access for suppression equipment. However, there are numerous small private parcels within the compartment, which adds to the human causes, and elevates the urban interface concerns.

**Additional Compartment Information:**

There are numerous spots in this compartment where illegal ORV access is taking place and resource damage will need to be addressed.

**The following reports from the Inventory are attached:**

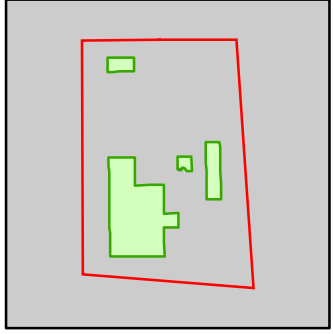
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

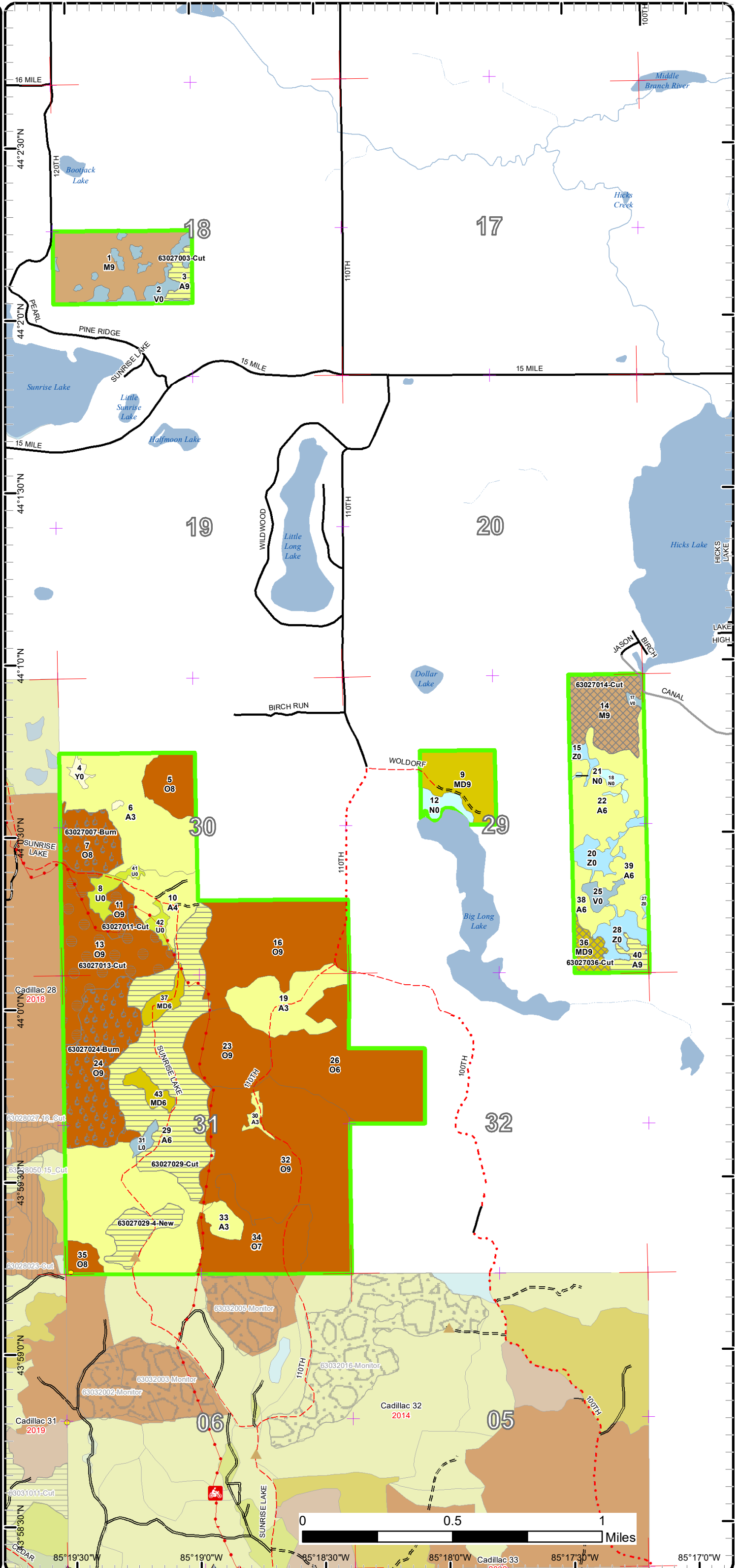
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 27  
 T19N - R08W Sec. 18,29-32  
 County: Osceola  
 Unit: Cadillac  
 Mgmt Area: Evert Block  
 YOY: 2021  
 Acres: 1,214 GIS Calculated  
 Examiner: James Park  
 Map Revised: 11/15/2019  
 Map Phase: Post-Review



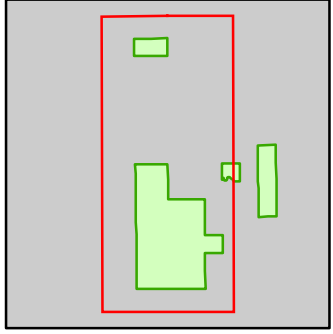
- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- ORV License & Trail Permit
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Patch/Strip Cut (Femelschlag)
- Prescribed Burn
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil



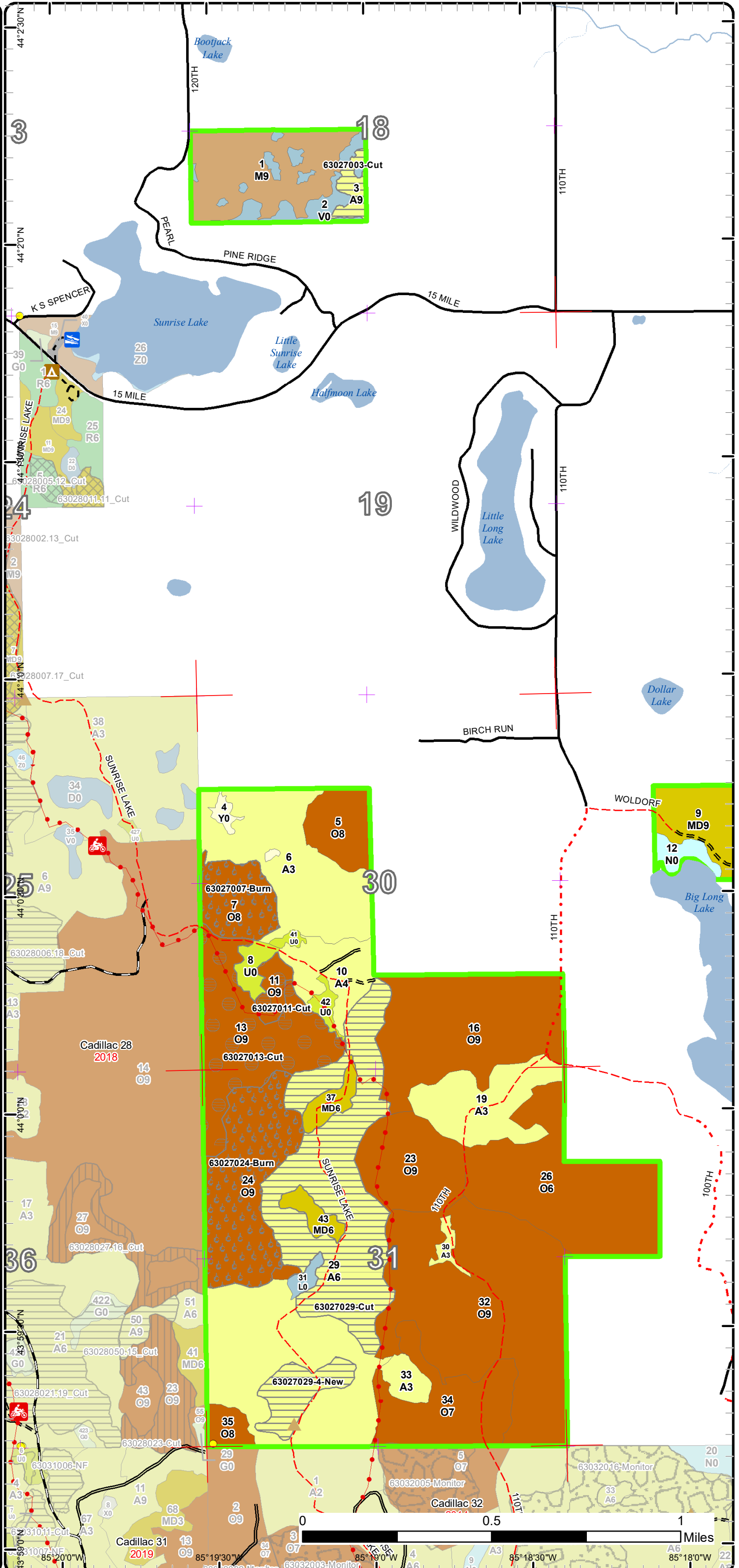
85°19'30"W 85°19'0"W 85°18'30"W 85°18'0"W Cadillac 33 2022 85°17'30"W 85°17'0"W

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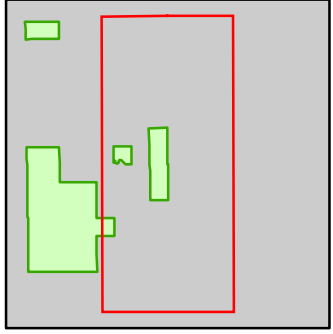
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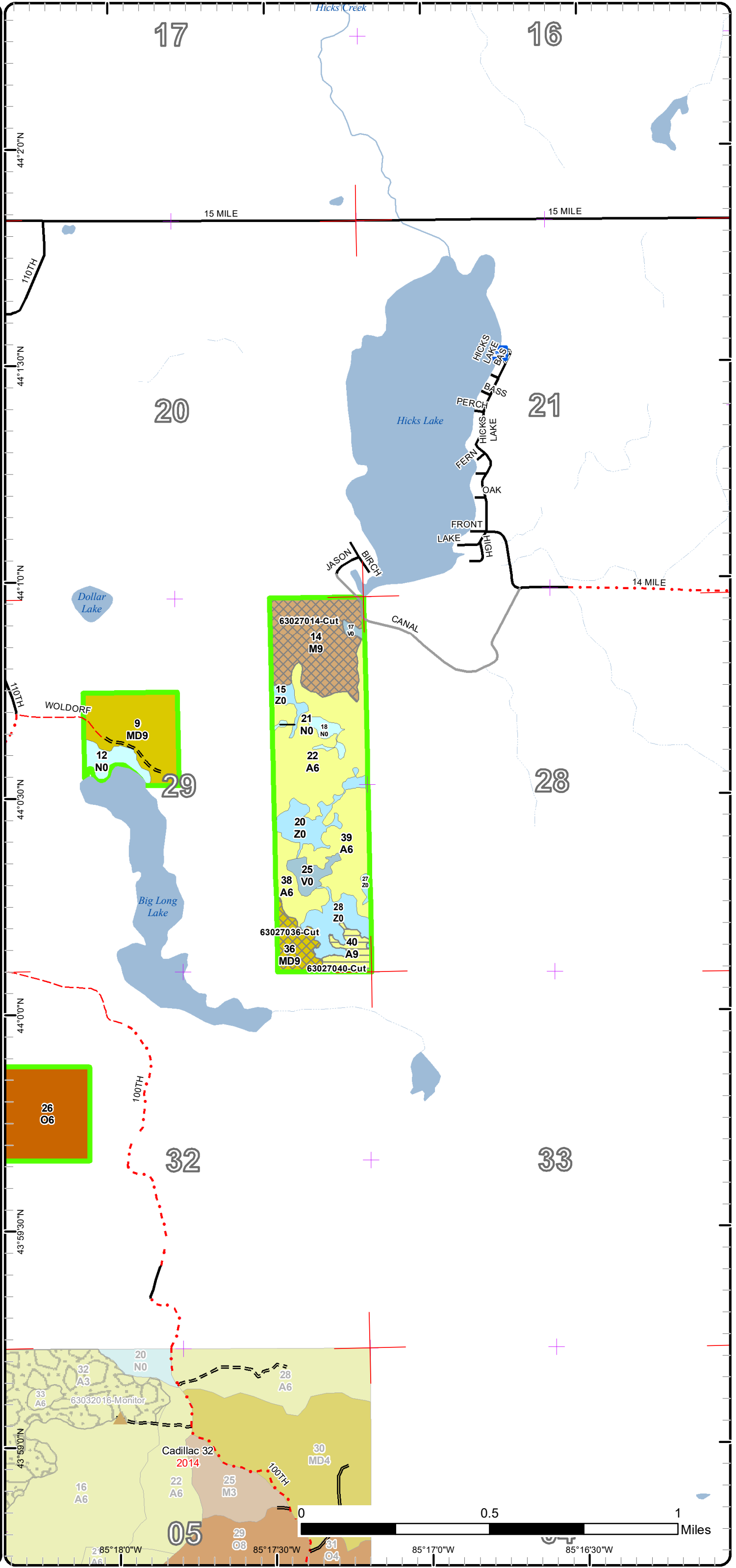


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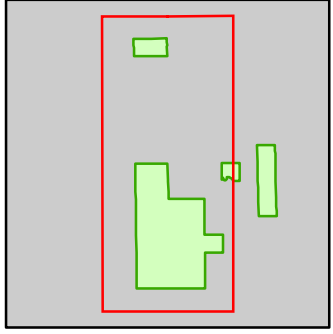
2 85°18'0"W  
 43°59'0"N  
 43°59'30"N  
 44°0'0"N  
 44°0'30"N  
 44°10'N  
 44°13'0"N  
 44°20'N

0 0.5 1 Miles  
 85°17'30"W  
 85°17'0"W  
 85°16'30"W

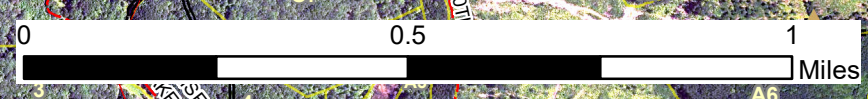
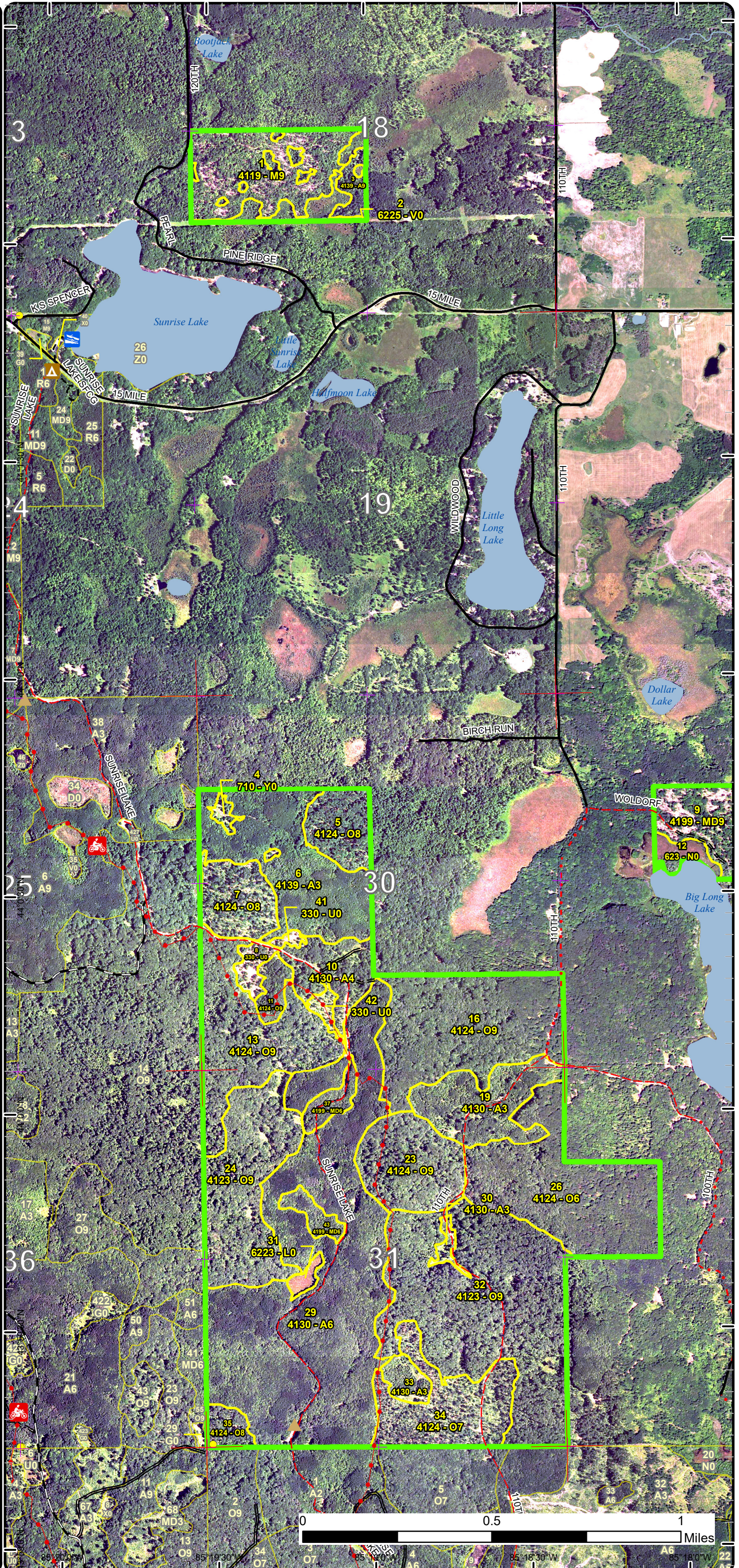


# Stand Boundary Map

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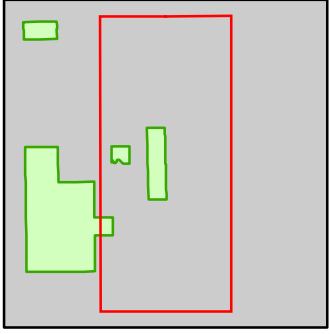
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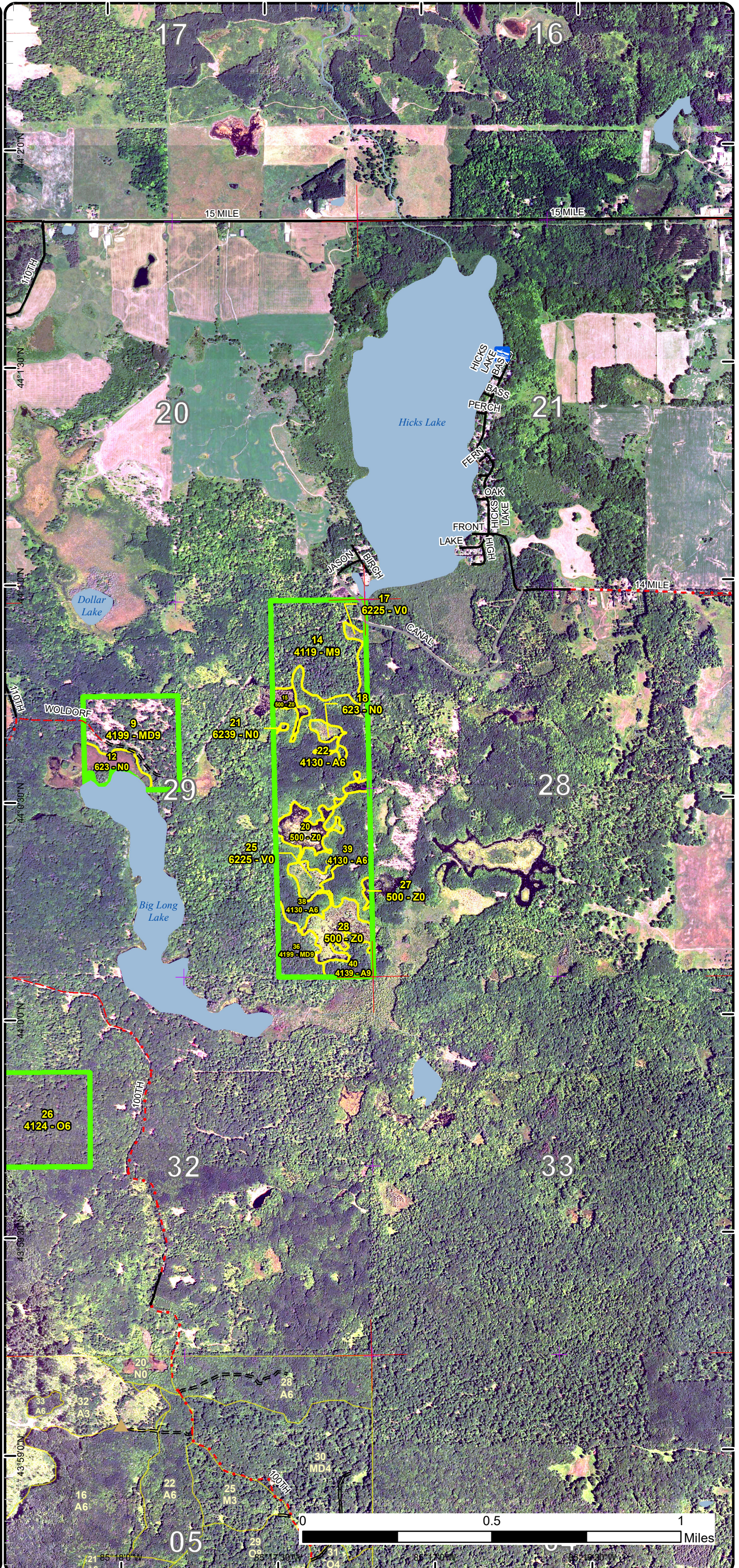


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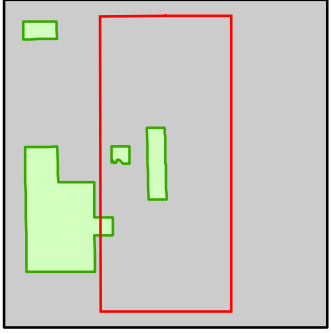




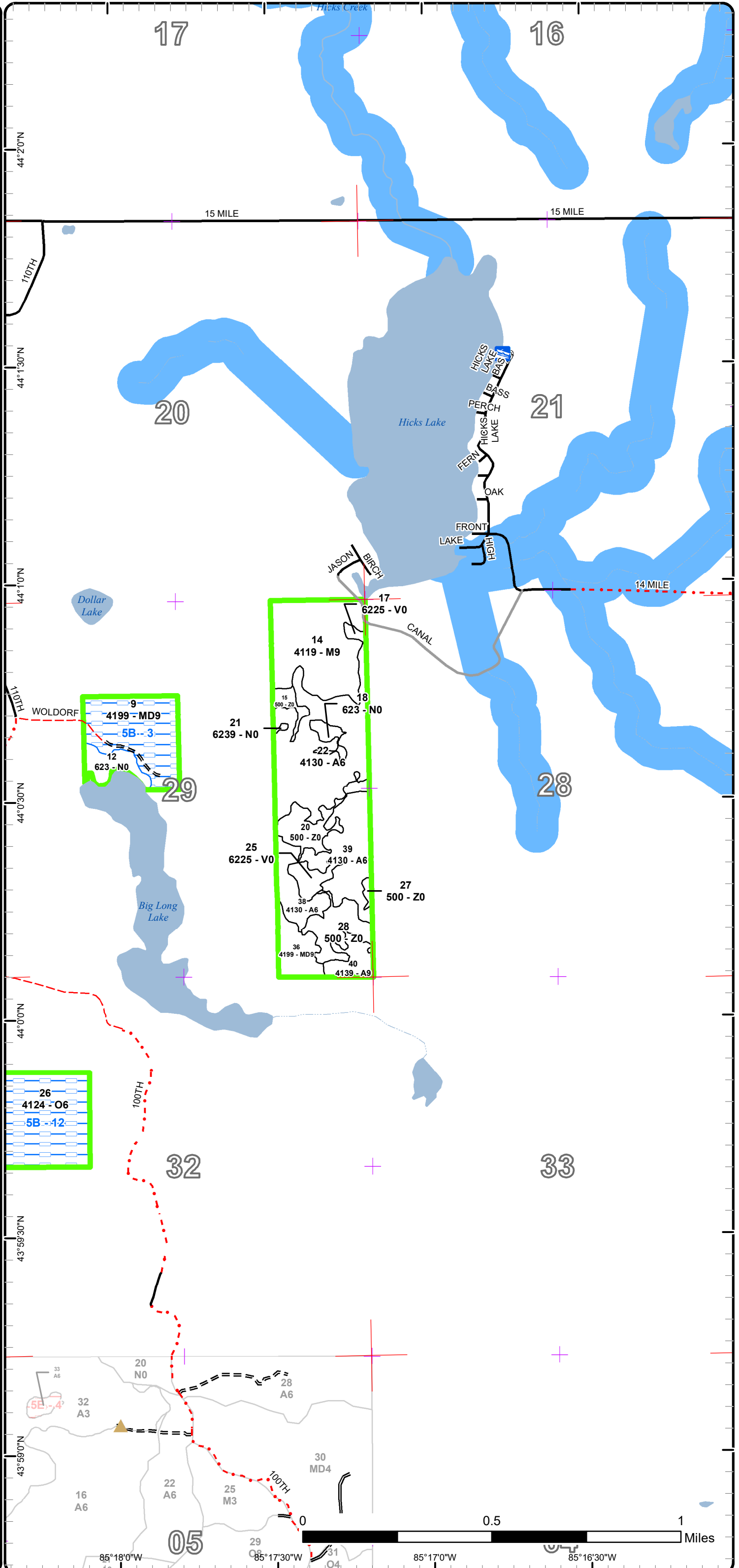


# Special Conservation Areas

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- ▲ Berms
- Boating Access Site
- Compartment Boundary
- Available w/ Constraints
- 5B: Maintain for regeneration purposes
- Stand Boundaries
- High Priority Trout Stream Buffer





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+	Unnever-Aged	Total
Aspen	0	0	47	67	74	228	0	0	0	7	7	0	0	0	0	0	0	0	430
Bog	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Marsh	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	0	0	0	0	14	0	0	0	0	29	10	0	0	0	0	0	0	53
Northern Hardwood	0	0	0	0	0	0	0	0	0	50	0	36	0	0	0	0	0	0	86
Oak	0	0	0	0	0	0	0	0	0	0	347	78	148	0	0	0	0	0	572
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Water	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
<b>Total</b>	<b>75</b>	<b>0</b>	<b>47</b>	<b>67</b>	<b>74</b>	<b>242</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>57</b>	<b>383</b>	<b>124</b>	<b>148</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1215</b>



## Report 2 – Treatment Summary

Cadillac Mgt. Unit

Compartment 27

Year of Entry: 2021

Acres of Harvest

Total Compartment Acres: 1,214

Commercial Harvest - 251  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	135	0	0	0	0	0	0	0	0	135
Mixed Upland Deciduous	0	10	0	0	0	0	0	0	0	10
Northern Hardwood	0	36	0	0	0	0	0	0	0	36
Oak	0	0	70	0	0	0	0	0	0	70
<b>Total</b>	<b>135</b>	<b>46</b>	<b>70</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>251</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	251	0	0	0	86	0	0	0	0	336
Next Step	0	0	0	0	87	0	336	0	0	423
<b>Total</b>	<b>251</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>172</b>	<b>0</b>	<b>336</b>	<b>0</b>	<b>0</b>	<b>759</b>



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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**Approved Treatments:**

<b>3</b>	<b>63027003-Cut</b>	6.6	4139 - Aspen, Mixed Deciduous	Sawtimber Well	80	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all species. Retention will be within buffers surrounding wet areas. Use grouse spec.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Aspen and a mix of lowland deciduous and coniferous species.

Regen:

Other Use timber sale to establish boundary and clear up any issues with adjacent landowner. Access is through stand 1 and between two low spots. This sale should be cut during the winter and mats should be used to cross into the stand.

Site Condition

Proposed Start Date: 10/1 /2020

<b>7</b>	<b>63027007-Burn</b>	23.7	4124 - Red with White Oak	Sawtimber Medium	95	1-50	Burn	Understory	412 - Oak Types	Two-Aged	No
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Prescription Burn to treat red maple competition and provide and help with Oak regeneration.

Specs:

Next Step Monitoring, Natural Regen (Intermediate); Burn, Understory

Treatments:

Acceptable Oak would be preferred but Red maple is very aggressive.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

<b>11</b>	<b>63027011-Cut</b>	7.4	4124 - Red with White Oak	Sawtimber Well	100	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	412 - Oak Types	Even-Aged	No
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Prescription Strip or patch cut to facilitate oak regeneration

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Oak, Maple, Aspen and a mix of other deciduous species

Regen:

Other Add spec to protect motorcycle trail. Use timber sale to block off illegal ORV access within the stand.

Comment:

Site Condition

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>13 63027013-Cut</b>	62.8	4124 - Red with White Oak	Sawtimber Well	101	51-80	Harvest	Strip/Patch/Gap Cut (Femelschlag)	412 - Oak Types	Two-Aged	No
<p><u>Prescription</u> Strip or patch cut to facilitate oak regeneration. Add spec to protect motorcycle trail. Add chipping requirement to assist Rx burn.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); Burn, Understory</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak, Maple, Aspen and other mixed deciduous trees.</p> <p><u>Regen:</u></p> <p><u>Other</u> Check with 50 (Tower) to determine appropriate levels of slash for Rx burn.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>14 63027014-Cut</b>	36.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	100	51-80	Harvest	Group Selection	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Cut all ash and aspen. Mark individual trees to release crop trees and provide access. There is some variable terrain in this stand that will need to be addressed when marking so that felling operations do not damage residual trees. The residual BA in this stand will be variable do to the concentration of ash and aspen. Canopy gaps may need to be created in some areas where the BA of residual species remains high.</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> Northern hardwoods and aspen</p> <p><u>Regen:</u></p> <p><u>Other</u> The use of mats and coordinated lay out will be necessary to facilitate access to this stand. Access on PVT road will also need to be secured.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
<b>24 63027024-Burn</b>	61.9	4123 - Red Oak	Sawtimber Well	110	51-80	Burn	Understory	4123 - Red Oak	Two-Aged	No
<p><u>Prescription</u> Burn to set red maple regen back.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Other - Specify</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 /2012</p>										
<b>29 63027029-4-New</b>	17.1	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> clearcut salvage</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> aspen</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 /2017</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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29	63027029-Cut	104.6	4130 - Aspen	Poletimber Well	44	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Clearcut with retention. Cut all species. Focus retention around water hole and wetland. Protect ORV route during timber sale. Use grouse spec in timber sale. Use oak wilt spec.

Next Step Monitoring, Natural Regen (Intermediate)  
Treatments:

Acceptable Aspen with a mix of upland deciduous species.  
Regen:

Other  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

36	63027036-Cut	9.6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	105	111-140	Harvest	Group Selection	411 - Northern Hardwood	Even-Aged	No
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Prescription Cut all ash and aspen and mark trees for crop tree release and access. The residual BA will be variable and will be low in spots due to the concentration of ash and aspen pockets.

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

Acceptable Northern hardwoods and aspen  
Regen:

Other Access to this stand is going to be difficult and require mats and ingenuity to make it happen. Access should be well laid out during sale set up and crossings marked and measured. Work with Site Condition forester to make access happen. There is also an option of access through PVT.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

40	63027040-Cut	6.7	4139 - Aspen, Mixed Deciduous	Sawtimber Well	90	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final harvest all aspen, ash and beech. Leave scattered hardwoods for seed source and mast. Mark leave trees to be included in retention along with wetland buffers.

This should be a winter cut or late summer as access will be difficult due to drainages and water table in the soils.

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

Acceptable Aspen, Sugar Maple, Beech, and Other upland deciduous species.  
Regen:

Other Access to this stand is going to be difficult and require mats and ingenuity to make it happen. Access should be well laid out during sale set up and crossings marked and measured. Work with Site Condition forester to make access happen. There is also an option of access through PVT.  
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

**Total Treatment** 336.4  
**Acres Proposed:**



## Report 4 – Site Conditions

Cadillac Mgt. Unit  
James Park : Examiner

Compartment: 27  
Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C
		With Condition	Not Available			
429	346	<b>83</b>	0	Aspen		<b>83</b>
22	22	<b>0</b>	0	Bog		
12	12	<b>0</b>	0	Low-Density Trees		
3	3	<b>0</b>	0	Lowland Shrub		
10	10	<b>0</b>	0	Marsh		
53	10	<b>43</b>	0	Mixed Upland Deciduous	<b>29</b>	<b>14</b>
86	86	<b>0</b>	0	Northern Hardwood		
572	157	<b>415</b>	0	Oak	<b>415</b>	<b>0</b>
3	3	<b>0</b>	0	Sand, Soil		
24	24	<b>0</b>	0	Water		
1,214	673	<b>541</b>		Total Forested Acres	<b>444</b>	<b>97</b>
	55%	<b>45%</b>	0%	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
2	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	83	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
3	Available	<b>5B: Maintain for regeneration purposes</b>	29	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
4	Unspecified	Unspecified	0				
<b>Comments:</b>							

## Report 4 – Site Conditions

Cadillac Mgt. Unit  
James Park: Examiner

Compartment: 27  
Year of Entry: 2021

5	Available	<b>5B: Maintain for regeneration purposes</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	<b>5B: Maintain for regeneration purposes</b>	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	<b>5B: Maintain for regeneration purposes</b>	83	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	<b>5B: Maintain for regeneration purposes</b>	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

**Report 4 – Site Conditions**

**Cadillac Mgt. Unit**  
**James Park : Examiner**

**Compartment: 27**  
**Year of Entry: 2021**

11	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	137	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	84	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
13	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



**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>Sugar Bowl</b>	Concentrated Recreation Area	Fishing Access Site	<b>Error</b>	6
<b>Comments</b>				
This is the historic sugar bowl area in the Evert Block				



**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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
1	4119 - Mixed Northern Hardwoods	Sawtimber Well	49.7	88	81-110	N/A	Stand treated timber sale #63-021-11-01, "Evert Hardwoods". Significant deer browse. Low pockets may make operability difficult in non-winter months. Some areas of steep terrain. Signs of Beech Bark disease & snap with some larger trees present showing signs of resistance. Ash trees in the stand are all dead. Good aspen regen 5-8 feet. Trace Black Cherry (saw two) and Basswood (saw four).																																										
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2	6225 - Bog	Nonstocked	16.0		Unspecified	No																																											
3	4139 - Aspen, Mixed Deciduous	Sawtimber Well	6.6	80	111-140	N/A	Large aspen, with some verging on overmature. Access to the stand is between two connected lowlands. Access will require mats or some type of structure. Best to access in winter months.																																										
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4	710 - Sand, Soil	Nonstocked	3.1		Unspecified	No																																											
5	4124 - Red with White Oak	Sawtimber Medium	20.3	95	1-50	N/A	Stand treated timber sale #63-061-11-01, "Billy Goat Oak". Previous Comment: Aspen and red maple cut out in 1992.  Stump-sprout origin oak overstory. Log to X-log in this stand. Overstory is dominated mostly by red oak with some white oak. Some scattered red maple poles have recruited into canopy gaps. Dense understory consists of mostly aspen and maple which is typical of the oak stands in this compartment.																																										
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7	4124 - Red with White Oak	Sawtimber Medium	23.7	95	1-50	N/A	Stand treated timber sale #63-061-11-01, "Billy Goat Oak". Previous Comment: One red oak cored = 42 rings at 5.5" DBH. Stand treated with a timber sale in 1992.  Oak stand with low BA. Red maple is the dominant species under the residual oak.																																										
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8	330 - Low-Density Trees	Nonstocked	6.3		Unspecified	No																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
<b>9</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	29.3	95	81-110	N/A	Stand was treated in Jan-Feb 2016 with timber sale "63-021-11-01", "Evert Hardwoods". Nice pockets of aspen regen. Maple and oak regen show signs of heavy deer browse.																																																		
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<b>10</b>	4130 - Aspen	Poletimber Poor	23.1	40	51-80	N/A																																																			
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<b>11</b>	4124 - Red with White Oak	Sawtimber Well	7.4	100	81-110	N/A	Previous comment: Buffer for designated Sugar Bowl. Steep hills prevent access. Leaving area un-cut deters motorcycle activity in surrounding stands.																																																		
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<b>12</b>	623 - Emergent Wetland	Nonstocked	7.1		Unspecified	No																																																			
<b>13</b>	4124 - Red with White Oak	Sawtimber Well	62.8	101	51-80	N/A	Stand treated timber sale #630420101, "Sugarbowl Hardwoods", cut winter of 2003-2004. Good quality stems in this stand. Red maple regen is significant.																																																		
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<b>14</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	36.0	100	51-80	N/A	Stand treated timber sale #630820101, "Willy-Nilly Hardwoods", TCR dated 2005. E.A.B. present and causing white ash to fall into the stand. Beech bark present. Lots of quality stems. BA is closer to 80. In pockets where mortality has occurred, white ash and aspen are recruiting.																																																		
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<b>15</b>	500 - Water	Nonstocked	3.0		Unspecified	No																																																			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
<b>16</b>	4124 - Red with White Oak	Sawtimber Well	83.0	95	81-110	N/A	Stand treated timber sale #630740101, "Long Lake Hardwoods", 2001. Removed all aspen, red maple. Thinned oak to 80sqft BA.		
<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		73	Log/Pole	14	95	Red Maple	High	10 - 20 feet	Sapling
White Oak		23	Pole/Log	12		Beech	Low	5 - 10 feet	Sapling
						Bigtooth Aspen	Medium	10 - 20 feet	Sapling
						Witch Hazel	High	5 - 10 feet	Tall Shrub
<b>17</b>	6225 - Bog	Nonstocked	1.2		Unspecified	No			
<b>18</b>	623 - Emergent Wetland	Nonstocked	2.8		Unspecified	No			
<b>19</b>	4130 - Aspen	Sapling Well	36.4	16	Immature	N/A	Stand treated in 2001 with timber sale "Long Lake Hardwoods"		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Bigtooth Aspen		60	Sapling	3	16				
Red Maple		30	Sapling	3					
Red Oak		10	Log/XLog	14					
<b>20</b>	500 - Water	Nonstocked	9.7		Unspecified	No			
<b>21</b>	6239 - Mixed Emergent Wetland	Nonstocked	0.3	0	Unspecified	No	Stand treated #630258101, 1985.		
<b>22</b>	4130 - Aspen	Poletimber Well	42.6	33	Unspecified	N/A	Aspen stand with scattered red maple, red oak, and black cherry. Stand treated #630258101, 1985. Lots of beaver activity.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		20	Pole/Sapling	6					
Bigtooth Aspen		75	Pole/Sapling	6	33				
<b>23</b>	4124 - Red with White Oak	Sawtimber Well	38.7	98	81-110	N/A	Stand treated timber sale #630740101, "Long Lake Hardwoods", cut July 2002.		
<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		Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Red Oak		70	Log	15	98	Maple Leaved Viburnum	Low	< 5 feet	Tall Shrub
White Oak		20	Log/Pole	12		Sassafras	Low	5 - 10 feet	Sapling
						Red Maple	High	5 - 10 feet	Sapling
<b>24</b>	4123 - Red Oak	Sawtimber Well	63.4	110	51-80	N/A	Stand treated timber sale #630960101, "Gladwin Hardwoods", 2004.		
<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	8		Red Maple	High	Variable	Sapling
Red Oak		75	Pole/Log	12	110	Witch Hazel	High	5 - 10 feet	Tall Shrub
White Oak		15	Pole/Log	10		Blackberry/Raspberry	High	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
25	6225 - Bog	Nonstocked	4.7		Unspecified	No																																																	
26	4124 - Red with White Oak	Poletimber Well	84.1	110	81-110	N/A	Stand treated timber sale #630790101, "Redfeather Selection", 2002.																																																
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29	4130 - Aspen	Poletimber Well	204.6	44	81-110	N/A	Aspen stand with scattered red maple, red oak, and black cherry. A treatment should be created to break this stand up into different age classes. There are significant blow down salvage operations both to the south and west of this stand. Retaining the southern half of this stand will ensure mature aspen is retained at the landscape level.																																																
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30	4130 - Aspen	Sapling Well	3.1	17	Immature	N/A	Regenerating stand. Cut in 2000.																																																
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31	6223 - Inundated Shrub Swamp	Nonstocked	3.2		Unspecified	No																																																	
32	4123 - Red Oak	Sawtimber Well	136.7	95	81-110	N/A	Stand treated timber sale #630420101, "Sugar bowl hardwoods", 2004.																																																
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33	4130 - Aspen	Sapling Well	7.5	16	Immature	N/A	Regenerating stand. Cut in 2001.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Bigtooth Aspen		60	Sapling	3	16				
Red Maple		40	Sapling	3					
34	4124 - Red with White Oak	Sawtimber Poor	44.5	90	1-50	N/A	Stand treated timber sale #63-061-11-01, "Billy Goat Oak". Previous Comment: Pockets of heavy white oak regen. Some scattered red oak 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>
Beech		10	Pole/Log	8		White Oak	Medium	< 5 feet	Sapling
Red Oak		60	Log/Pole	12	90	Witch Hazel	High	< 5 feet	Tall Shrub
White Oak		30	Pole/Log	10		Red Oak	Low	< 5 feet	Sapling
35	4124 - Red with White Oak	Sawtimber Medium	7.6	108	51-80	N/A	Stand treated timber sale #631070101, "Woodcutters Trail", 2004.		
<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	12		Witch Hazel	Low	5 - 10 feet	Tall Shrub
Red Oak		50	Log/Pole	13	108	Bigtooth Aspen	Medium	5 - 10 feet	Sapling
White Oak		35	Log/Pole	11		Red Maple	Medium	5 - 10 feet	Sapling
36	4199 - Other Mixed Upland Deciduous	Sawtimber Well	9.6	105	111-140	N/A	E.A.B. and Beech Bark are present in the stand. White ash is dying and falling into the stand, but some remains unaffected. Stand shows no signs of management. The aspen is mostly over-mature and located in the eastern portion of the stand. Some of the aspen is beginning to fall into the stand. Some steep hills. Significant beaver activity in the area.		
<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>
Bigtooth Aspen		15	Log	15		Bigtooth Aspen	Low	5 - 10 feet	Sapling
Red Oak		30	Log/XLog	16	105	Red Maple	Low	5 - 10 feet	Sapling
Beech		10	Log/Pole	14		Sugar Maple	Low	5 - 10 feet	Sapling
White Ash		15	Log/Pole	13					
Basswood		12	Log/Pole	15					
37	4199 - Other Mixed Upland Deciduous	Poletimber Well	7.4	44	111-140	N/A	This stand was harvested at the same time as the surrounding aspen stand, and regenerated to mostly mixed deciduous. Took core samples from multiple tree species and found all to have similar ages. Stump-sprout origin oak and maple are prevalent within the stand. Manage for oak or mixed deciduous in the future, with a focus on oak retention.		
<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		40	Pole/Sapling	5	44	Witch Hazel	Medium	5 - 10 feet	Tall Shrub
Red Oak		40	Pole/Sapling	5		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		12	Pole/Sapling	6	44				
38	4130 - Aspen	Poletimber Well	9.8	33	Unspecified	N/A	Aspen stand with scattered red maple, red oak, and black cherry. Stand treated #630258101, 1985. Lots of beaver activity.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		20	Pole/Sapling	6					
Bigtooth Aspen		72	Pole/Sapling	6	33				
39	4130 - Aspen	Poletimber Well	21.5	33	Unspecified	N/A	Aspen stand with scattered red maple, red oak, and black cherry. Stand treated #630258101, 1985. Lots of beaver activity.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>				
Red Maple		20	Pole/Sapling	6					
Bigtooth Aspen		74	Pole/Sapling	6	33				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
<b>40</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	6.7	90	111-140	N/A	E.A.B. and Beech Bark are present in the stand. White ash is dying and falling into the stand, but some remains unaffected. Stand shows no signs of management. The aspen is mostly over-mature and located in the eastern portion of the stand. Some of the aspen is beginning to fall into the stand. Some steep hills. Significant beaver activity in the area.																																					
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<b>41</b>	330 - Low-Density Trees	Nonstocked	1.7	0	Unspecified	No	Disbursed camping area adjoins sugar bowl.																																					
<b>42</b>	330 - Low-Density Trees	Nonstocked	3.7	0	Unspecified	No																																						
<b>43</b>	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.5	44	111-140	N/A	This stand was harvested at the same time as the surrounding aspen stand, and regenerated to mostly mixed deciduous. Took core samples from multiple tree species and found all to have similar ages. Stump-sprout origin oak and maple are prevalent within the stand. Manage for oak or mixed deciduous in the future, with a focus on oak retention.																																					
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