



Compartment Review Presentation

Crystal Falls Forest Management Unit

Compartment 12062

Entry Year: 2027

Acreage: 2,075

County: Dickinson

Management Area: Ralph Moraine

Stand Examiner: Deb Goupell

Legal Description:

T42N R28W Sec 9, 10, 15-17

Identified Planning Goals:

Manage for a sustainable yield in all forested cover types with aspen being prescribed for cut at age 50, per Management Area guidelines.

Soil and topography:

Fine sandy loams and rock outcrops for most of the uplands. Lowlands are Carbondale/Cathro/Waucedah mucks.

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

There are a number of private landowners within and adjacent to this compartment. It is heavily used for hunting, trapping and ATV riding.

Unique Natural Features:

Two branches of the Skunk Creek flow through this compartment.

Archeological, Historical, and Cultural Features:

None noted

Special Management Designations or Considerations:

This has been a historic deer wintering area.

Watershed and Fisheries Considerations:

Protect branches of Skunk Creek and East Branch Skunk Creek (Designated Trout Streams) with a 300 foot buffer for areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100 feet, plus 5 feet per 1% increase in slope, riparian management zone is recommended to protect riparian areas in accordance with Best Management Practices. There are also wetland areas within this compartment (<https://www.mcgi.state.mi.us/wetlands/mcgiMap.html#>) If any treatments are near a wetland area, best management practices should be incorporated which include a 100' buffer. Streams, regardless of their size or frequency of flow, are connected to downstream waters and strongly influence their function. Additionally, wetlands and open waters in riparian areas and floodplains are physically, chemically, and biologically integrated with rivers via functions that improve downstream water quality. These systems act as effective buffers to protect downstream waters from pollution and are essential components of river food webs. BMP's should be implemented to control sediment sources from adjacent uplands. Fine sediments such as silt and sand negatively affect natural reproduction of fish, decrease the diversity of aquatic invertebrate and fish taxa, and result in lower overall fish populations.

Wildlife Habitat Considerations:

This compartment is part of a historic deer wintering complex so white-tailed deer was selected as a featured species. Maintenance and enhancement of conifer species to provide thermal cover, travel corridors, and dispersal through uplands to obtain forage will be critical. Maintenance of forest openings and mast producing trees and shrubs is very important for both deer and bear. Maintaining the integrity of lowland conifers, lowland hardwoods, riparian corridors, vernal pools and drainages will provide for necessary black bear habitat. Mature forest conditions that provide nesting and foraging habitat for northern goshawk will be part of this compartment's management. Incorporating smaller aspen stands, increased age-class diversity, and adequate conifer as a stand component will enhance this compartment for grouse and woodcock.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest known active sand/gravel pit is less than two miles south, and two miles southeast is a quarry mining Randville dolomite. There is some good potential for development of gravel within the compartment on the uplands, but the glacial sediments also appear to be clay-rich. Furthermore, the compartment might be too far from populated areas (commercial markets) for any aggregate

resources present to have much value beyond use by the county road commission or DNR for local road maintenance. Significant past metallic mineral exploration test drilling was completed within and in the immediate vicinity of the compartment. Evidence from test drilling and geophysical data indicate the presence of iron-bearing formations beneath the compartment, but any ore deposits may be too deep and/or too low grade to be economical to mine. The setting is also suitable for the occurrence of other metallic and critical minerals, but there has been no identified legitimate prospects and no leasing activity in the area involving State-owned mineral rights within the past 15 years. Potential for future production of metallic minerals from within the compartment is considered low at this time

Vehicle Access:

Skunk Creek Rd on the south boundary; poor dirt roads or trails access most of the rest of the compartment.

Survey Needs:

Yes

Recreational Facilities and Opportunities:

Stream fishing, hunting, trapping, ATV riding, dispersed camping available in this compartment.

Fire Protection:

Felch protection area.

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: 12062
T42N R28W Sec 8-10, 15-17
County: Dickinson
Unit: Crystal Falls
Mgmt. Area: Ralph Moraine
YOE: 2027
Acres: 2,075 GIS Calculated
Examiner: Deb Goupell
Date Exported: 08/22/2025
Map Phase: Web Post



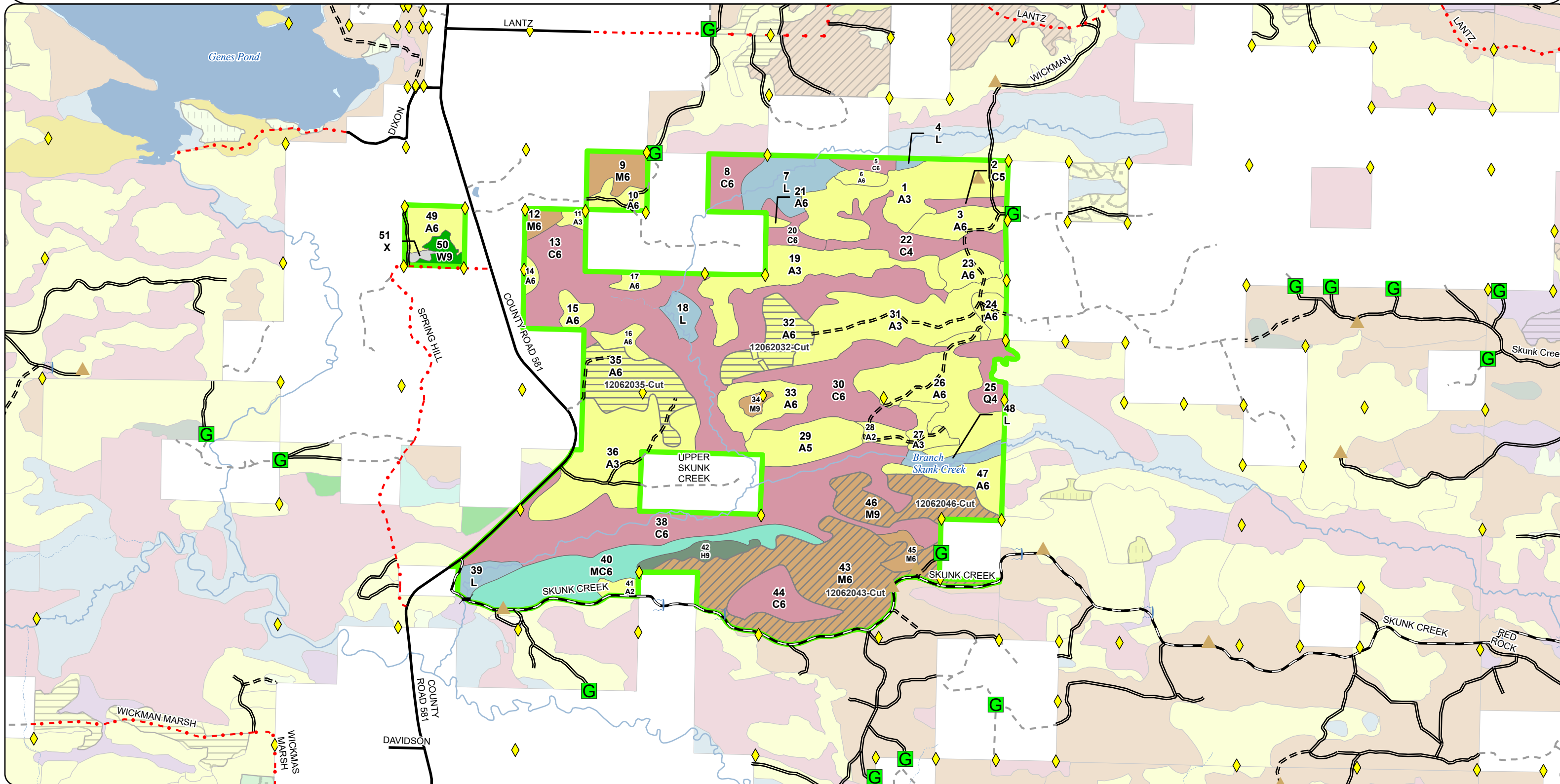
0 0.5 1 Miles

- Survey Grade Corners
- Berms
- Gate
- Bridges
- Culvert
- DNR - Primary Forest Road

- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River

- Lakes and Rivers
- Counties
- Compartment Boundary
- Clearcut
- Thinning
- 411 - Northern Hardwood
- 413 - Aspen

- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 622 - Lowland Shrub



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Survey Grade Corners

Berms

Gate

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Perennial River

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Counties

Compartment Boundary

Clearcut

411 - Northern Hardwood

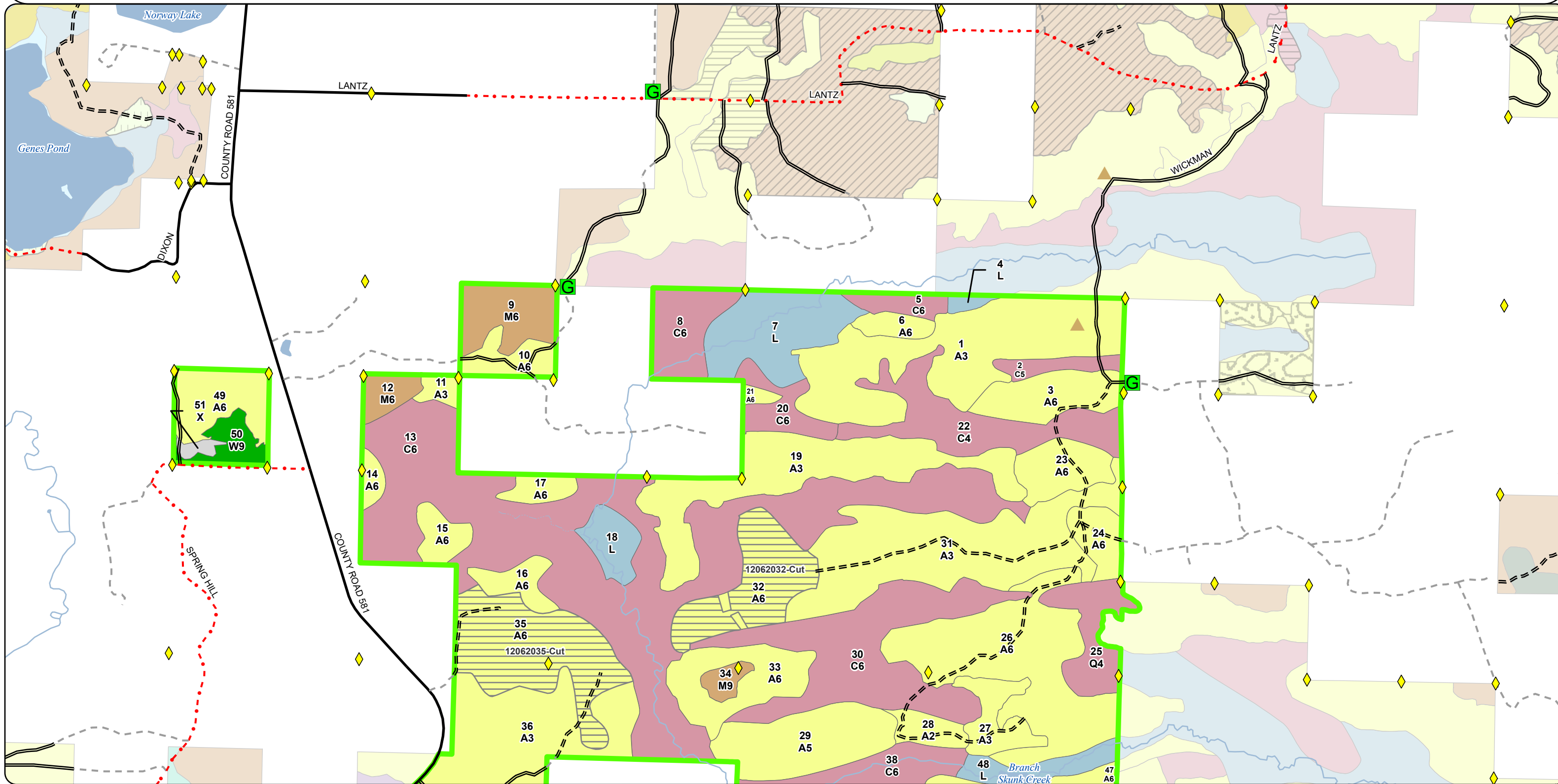
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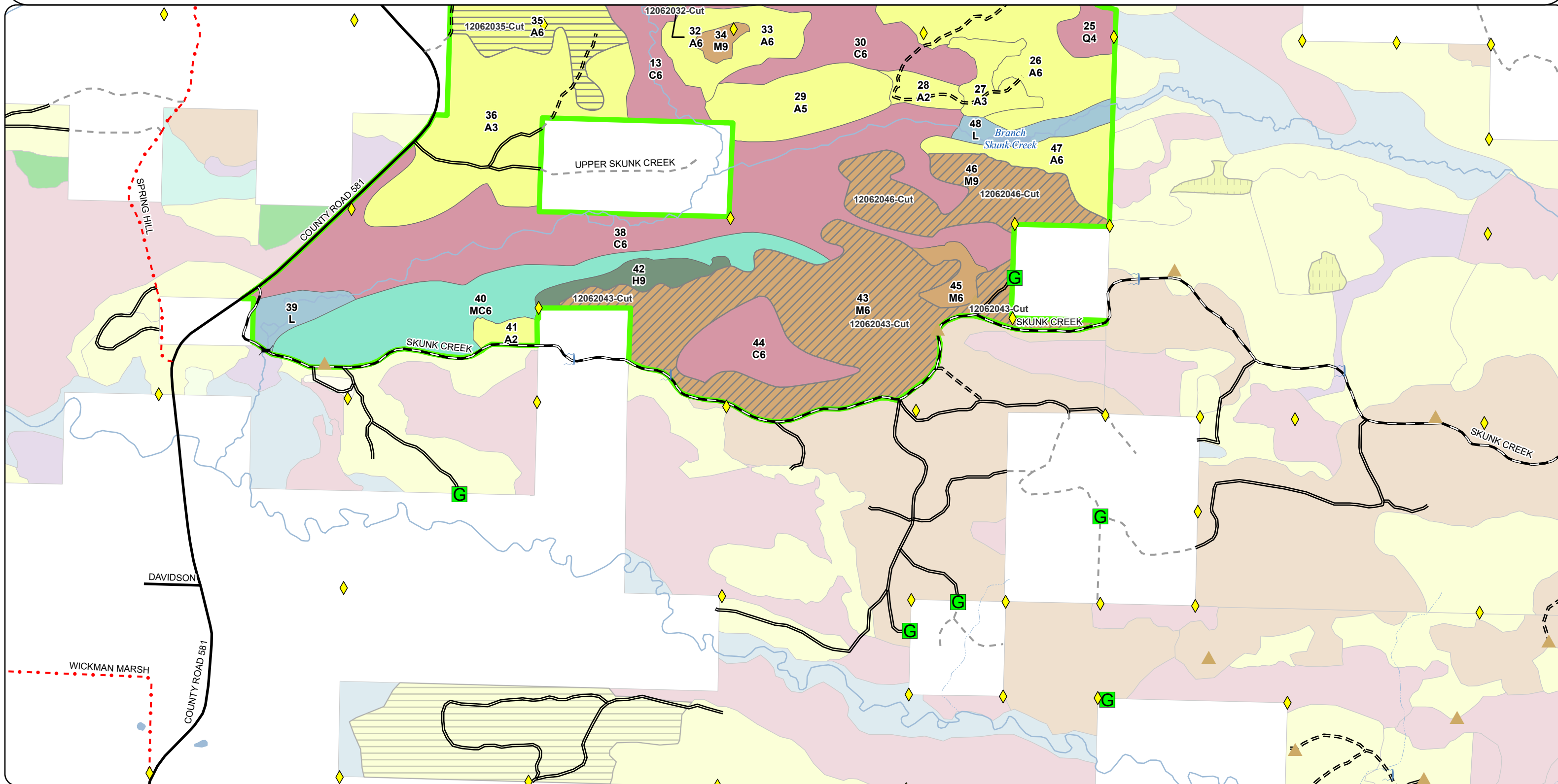
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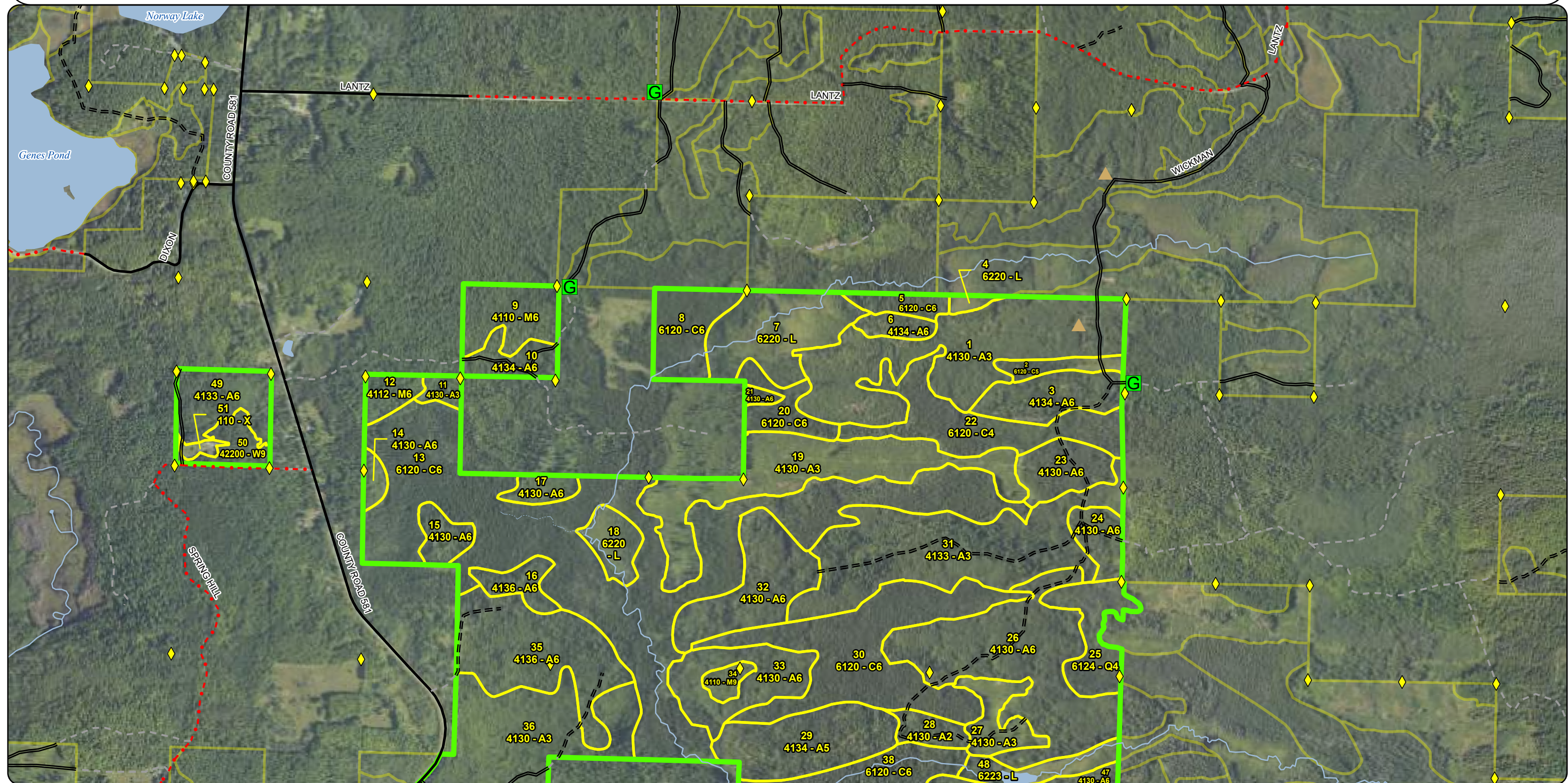
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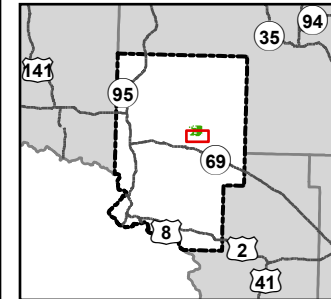
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Stand Boundary Map



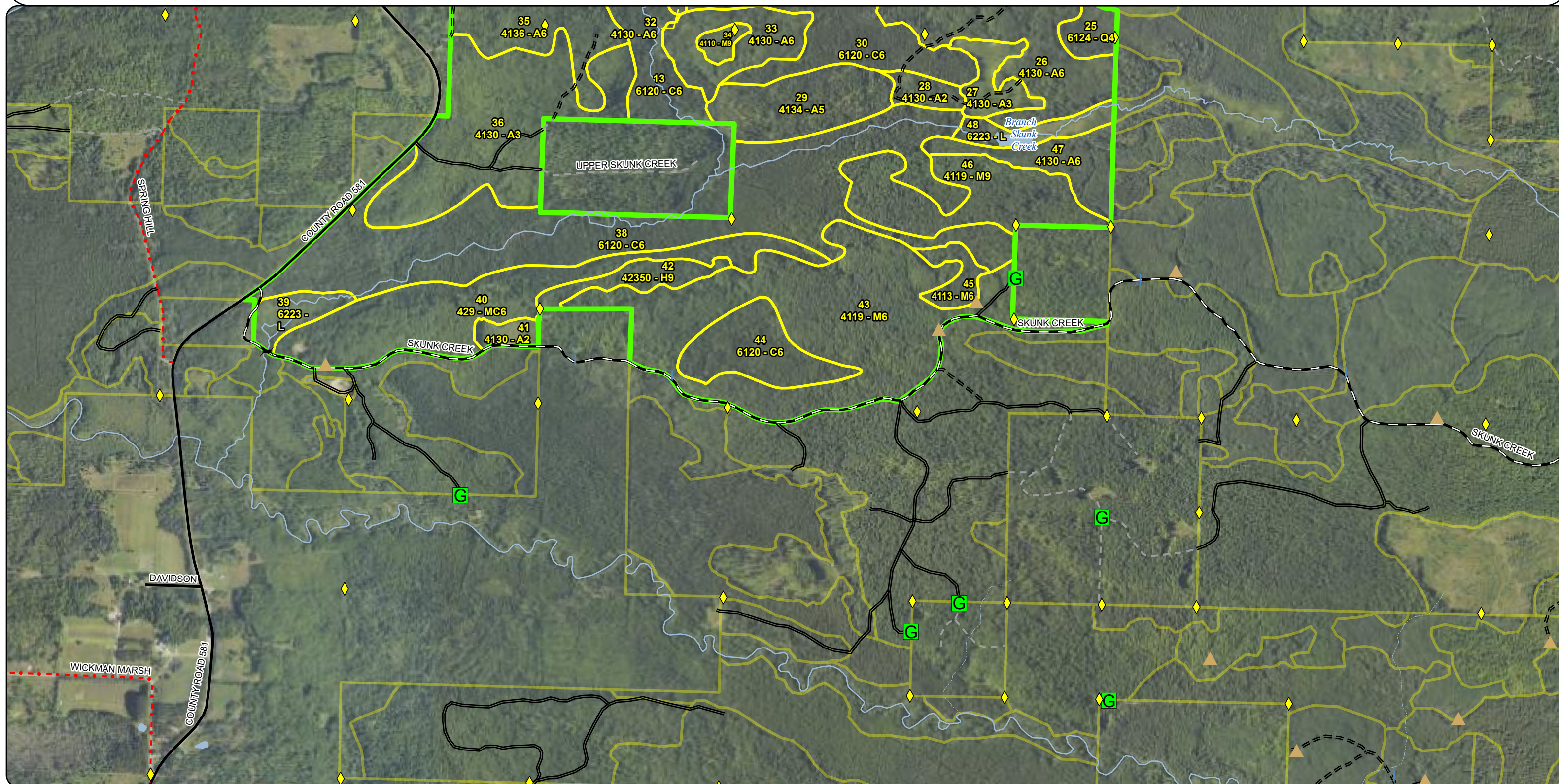
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Special Conservation Areas & Site Conditions Map

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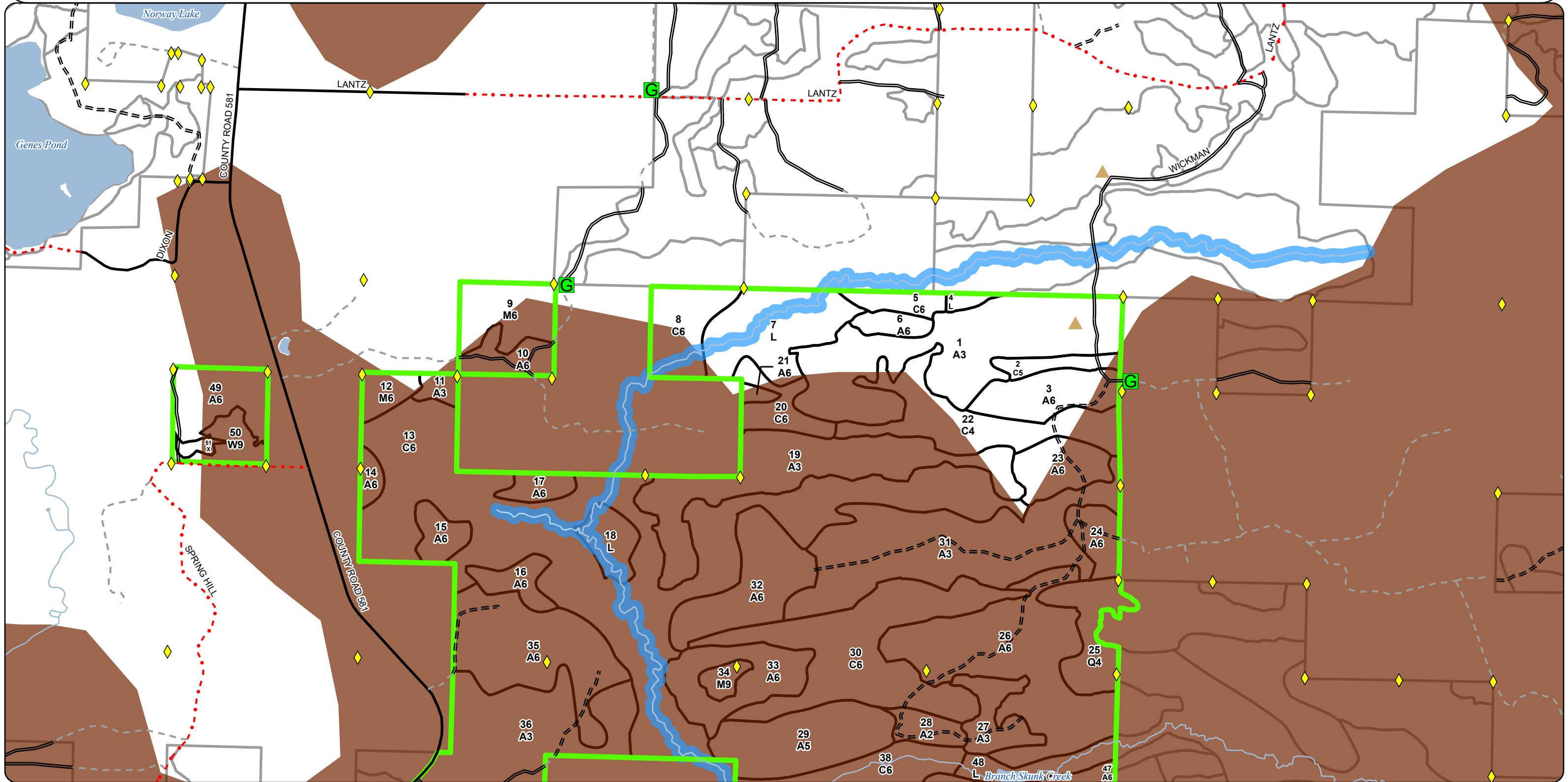
Compartment Boundary

Stand Boundaries

Cold Water Streams

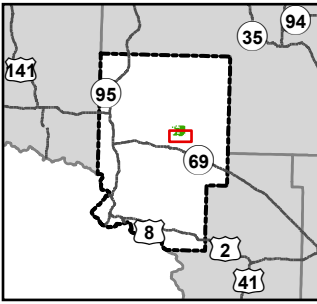
High Priority Trout Stream Buffer

Deer Winter Range



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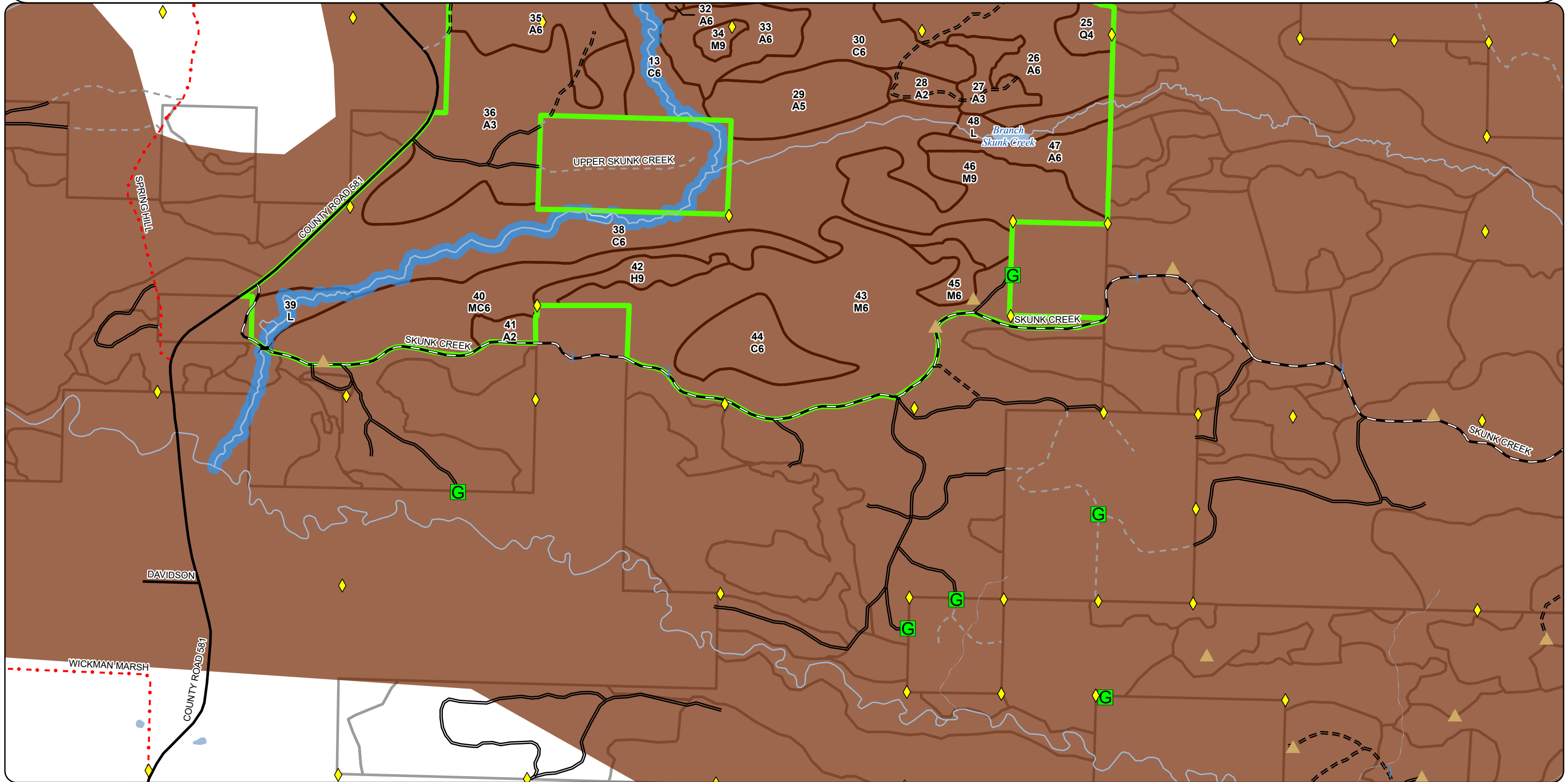


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Report 1 – Total Acres by Cover Type and Age Class



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	98	104	404	110	45	105	0	0	0	2	0	0	0	0	0	0	0	866
Cedar	0	0	0	0	0	0	0	0	0	0	140	264	278	0	0	0	0	0	682
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	17
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	25
Lowland Shrub	91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Northern Hardwood	0	0	0	0	0	11	0	0	0	0	0	238	0	0	0	0	0	41	290
Upland Conifers	0	0	0	0	91	0	0	0	0	0	0	0	0	0	0	0	0	0	90
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
White Pine	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12
Total	94	98	104	404	201	56	105	0	0	0	179	502	295	0	0	0	0	41	2075



Report 2 – Treatment Summary

Crystal Falls Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 62
Total Compartment Acres: 2,075

Commercial Harvest - 447
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	104	0	0	0	0	0	0	0	0	104
Northern Hardwood	0	0	0	0	0	238	0	0	0	238
Total	104	0	0	0	0	238	0	0	0	342

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	342	0	0	0	0	0	0	0	0	342
Next Step	0	0	0	0	0	0	104	0	0	104
Total	342	0	0	0	0	0	104	0	0	446



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:

32	12062032-Cut	40.8	4130 - Aspen	6	50	Unspec fied	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest all stems " and up. Retain all cedar, white/red pine, clumps of submerchantable conifer where available. Corridor of conifer will be <u>Specs:</u> left as retention (shown in treatment). <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, mixed hardwood, mixed softwood <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
35	12062035-Cut	62.8	4136 - Aspen, Mixed Conifer	6	50	Unspec fied	Harvest	Clearcut	413 - Aspen	Planting Record	No
<u>Prescription</u> Final harvest all stems 3" and greater except cedar, white/red pine, hemlock. Red pine pocket will be kept as retention as well as conifer in the <u>Specs:</u> northwest corner. Retain clumps of live submerchantable conifer where available. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> aspen, mixed softwood, mixed hardwood <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
43	12062043-Cut	176.6	4119 - Mixed Northern Hardwoods	6	101	111- 140	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Thin to 70 BA following Compleat Marker. Retain some representation of minor species. No cedar, pine, hemlock, conifer will be cut. WLD <u>Specs:</u> requests this be a winter only harvest to feed deer. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> mixed hardwood, mixed softwood <u>Regen:</u> <u>Other</u> Be mindful of vernal ponds keeping 70% canopy cover <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											
46	12062046-Cut	61.8	4119 - Mixed Northern Hardwoods	9	102	111- 140	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Thin to 70 BA following Compleat Marker. Retain some representation of minor species. No cedar, pine, hemlock, conifer will be cut. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> mixed hardwood,mixed softwood <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026											



S t a n d									Year of Entry: 2027		
	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	

Total Treatment
Acreage Proposed: 342



Availability for Management

Total Acres Acres Available Acres With Condition Acres Not Available

Dominant Site Conditions

3H 3J 3L 5E

767	758	0	9	Aspen	3		2	4
671	93	0	578	Cedar	569	9		
17	17	0	0	Hemlock				
25	25	0	0	Lowland Conifers				
90	91	0	0	Lowland Shrub				
290	290	0	0	Northern Hardwood				
90	91	0	0	Upland Conifers				
3	3	0	0	Urban				
12	12	0	0	White Pine				
1,964	1,377		588	Total Forested Acres	572	9	2	4
	70%		30%	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)	9	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:								
6	Unavailable		5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
7	Unavailable		3H: Deer Wintering Area - habitat is incompatible with harvest at this time	370	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments:								



8	Unavailable	3L: Other wildlife concerns	2	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
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Comments:

Need to harvest through cedar to access this stand; water draining along east edge of this stand northerly. Low volume to capture for roadwork necessary to access. Other possibility is to access through private

Mgt. Unit

Compartment: #Type!
Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
33	4130 - Aspen	Poletimber Well	33.2	29	Immature	N/A	Upper Skunk Ck Club TS cut 1996. Very wet access along trail from east Moving into pole class, dbh range 3-6". Some white pine left in far southwest																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Quaking Aspen</td><td>85</td><td>Sapling</td><td>5</td><td>29</td></tr><tr><td>Balsam Fir</td><td>10</td><td>Pole</td><td>4</td><td></td></tr><tr><td>White Spruce</td><td>5</td><td>Log</td><td>3</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	85	Sapling	5	29	Balsam Fir	10	Pole	4		White Spruce	5	Log	3											
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34	4110 - Sugar Maple Association	Sawtimber Well	5.6	96	81-110	N/A	Too small to manage until aspen is cut. White pine seedlings are browsed hard																														
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35	4136 - Aspen, Mixed Conifer	Poletimber Well	62.8	50	Unspecified	N/A	some rocky knobs have smaller dbh aspen and trace cherry. Far south tip has ~3acres of RP/WP on rock knob. Several ridges run parallel E/W.Fair amount of blowdown on west and north where conifer was thickest (SBW mortality in conjunction with blowdown)																														
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36	4130 - Aspen	Sapling Well	111.0	25	Immature	N/A	Upper Skunk Ck Rd TS cut 2000																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>White Pine</td><td>2</td><td></td><td>16</td><td></td></tr><tr><td>Quaking Aspen</td><td>88</td><td>Log</td><td>4</td><td>25</td></tr><tr><td>Balsam Fir</td><td>5</td><td>Sapling</td><td>6</td><td></td></tr><tr><td>White Spruce</td><td>5</td><td>Sapling</td><td>7</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	White Pine	2		16		Quaking Aspen	88	Log	4	25	Balsam Fir	5	Sapling	6		White Spruce	5	Sapling	7						
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38	6120 - Lowland Cedar	Poletimber Well	210.4	100	Unspecified	N/A	Wide range of cedar diameters.																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Tamarack</td><td>10</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Balsam Poplar</td><td>5</td><td></td><td>12</td><td></td></tr><tr><td>Black Spruce</td><td>10</td><td>Seedling</td><td>7</td><td></td></tr><tr><td>Northern White Cedar</td><td>75</td><td></td><td>10</td><td>100</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Tamarack	10	Seedling	7		Balsam Poplar	5		12		Black Spruce	10	Seedling	7		Northern White Cedar	75		10	100					
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39	6223 - Inundated Shrub Swamp	None	14.3			No	OPIC - FMD: OI Stand Year Origin was																														





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
45	4113 - R.Maple, Conifer	Poletimber Well	10.9	48	1-50	N/A	Most of stems are multi-stemmed. Conifer pocket in south central with a trace of cedar is wetter.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Balsam Fir</td><td>15</td><td>Sapling</td><td>6</td><td></td></tr><tr><td>Red Maple</td><td>55</td><td>Sapling</td><td>7</td><td>48</td></tr><tr><td>Northern White Cedar</td><td>5</td><td></td><td>9</td><td></td></tr><tr><td>Sugar Maple</td><td>20</td><td>Pole</td><td>4</td><td>48</td></tr><tr><td>Quaking Aspen</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	15	Sapling	6		Red Maple	55	Sapling	7	48	Northern White Cedar	5		9		Sugar Maple	20	Pole	4	48	Quaking Aspen	5	Seedling	6						
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46	4119 - Mixed Northern Hardwoods	Sawtimber Well	61.8	102	111-140	N/A	Allinger TS cut 2008. Much of the hemlock is half dead or snags. Only fair quality hardwood stand. A few white pine.																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Basswood</td><td>15</td><td></td><td>12</td><td></td></tr><tr><td>Hemlock</td><td>5</td><td></td><td>10</td><td></td></tr><tr><td>Sugar Maple</td><td>54</td><td></td><td>12</td><td>102</td></tr><tr><td>Red Maple</td><td>20</td><td></td><td>10</td><td></td></tr><tr><td>Yellow Birch</td><td>5</td><td></td><td>11</td><td></td></tr><tr><td>Northern White Cedar</td><td>1</td><td></td><td>10</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Basswood	15		12		Hemlock	5		10		Sugar Maple	54		12	102	Red Maple	20		10		Yellow Birch	5		11		Northern White Cedar	1		10	
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47	4130 - Aspen	Poletimber Well	28.0	34	Immature	N/A	Skunk Ck Trail TS cut 1991. Far west finger is scattered cherry, balsam, spruce, hazel. Most of the conifer is directly on north of stand along Skunk Creek.																																			
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48	6223 - Inundated Shrub Swamp	None	15.0			No																																				
49	4133 - Aspen, Mixed Pine	Poletimber Well	25.8	32	Immature	N/A	Stand Year Origin was 1993. White pine regen heavy in west. RP/WP super canopy dominant on west line.																																			
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50	42200 - Natural White Pine	Sawtimber Well	11.5	90	81-110	N/A	Harvested 2012 with "Spring Hill Select" sale #12-080-10-01.																																			
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51	110 - Low Intensity Urban	None	2.7			No	OPIC - FMD: SCHOOL FOREST GRAVEL PIT.																																			