



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32271

Entry Year 2021

Acreage: 860

County Marquette

Management Area: Chain Lakes Moraine

Revision Date: 2019-07-25

Stand Examiner: Rick Hill

Legal Description:

T45N-R28W Sections 13, 24, 25

Identified Planning Goals:

Vegetative management in the Chain Lake management area (MA) will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreational uses. Timber management objectives for the 10-year planning period include improving the age-class distribution of aspen, lowland conifer and lowland spruce/fir; maintaining the conifer component in northern hardwood stands; maintaining the presence of minor cover types on the landscape; and maintaining non-forest vegetation types. Wildlife management objectives include increasing diversity and long-term oak sustainability through under planting white and red pine; and to maintain or increase wildlife corridors especially along riparian areas. Management activities may be constrained by site conditions and the skewed age-class distributions. Balancing age classes and oak regeneration will be priority issues in this 10-year planning period.

Soil and topography:

Medium to Corser sands in the uplands and organic soils in the lowlands. The terrain ranges from level to rolling to slightly hilly.

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

State land borders on the east and west sides. Larger private land holdings border to the north and south. Land use is for forest production and recreation.

Unique Natural Features:

This compartment is adjacent to a large opening complex.

Archeological, Historical, and Cultural Features:

A historic railroad grade is present within the compartment.

Special Management Designations or Considerations:

Camp 11 creek is a designated trout stream, its riparian areas will be managed to protect these values.

Watershed and Fisheries Considerations:

The northwestern region of this compartment contains two unnamed waterbodies (lake and stream) which serve as a tributary to Camp Eleven Creek. The unnamed stream is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for the unnamed stream in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

For the unnamed small lake: 100' plus 5' per 1% increase in slope; buffers are recommended to protect shoreline areas in accordance with Best Management Practices.

The southern region of this compartment borders Camp Eleven Creek which serves as a tributary to Big Brook. Camp Eleven Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for Camp Eleven Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 271 is found within the Chain Lakes Moraine Management Area; on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are: mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of

large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Chain Lakes Management Area: black bear, gray jay, pileated woodpecker, Northern goshawk, red crossbill.

Mineral Resource and Development Concerns and/or Restrictions

Active sand/gravel pits do not exist in the area, but there could be some sand & gravel potential within the compartment. Little information is available on the local surficial geology. There is no history of metallic mineral production and little to no documented exploration in this area. There has been past metallic mineral leasing activity in the area, but nothing within the past 30 years. There is no known potential 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:

Access to this compartment is good via seasonal county roads and portions of secondary and primary DNR roads. Access within the compartment is good with forest access routes accessing most of the stands.

Survey Needs:

Any survey needs for timber sale work will be requested well before sale work begins.

Recreational Facilities and Opportunities:

There are no current recreational opportunities in this area beyond dispersed activities. There is little potential for future development.

Fire Protection:

This compartment is outside of any zone protection areas however it contains high risk fuels made up of young to older jack pine. response times will be slow due to winding sandy roads that access the area. most of the compartment will support mechanical firefighting.

Additional Compartment Information:

The following reports from the Inventory are attached:

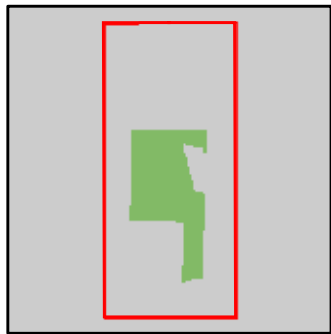
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

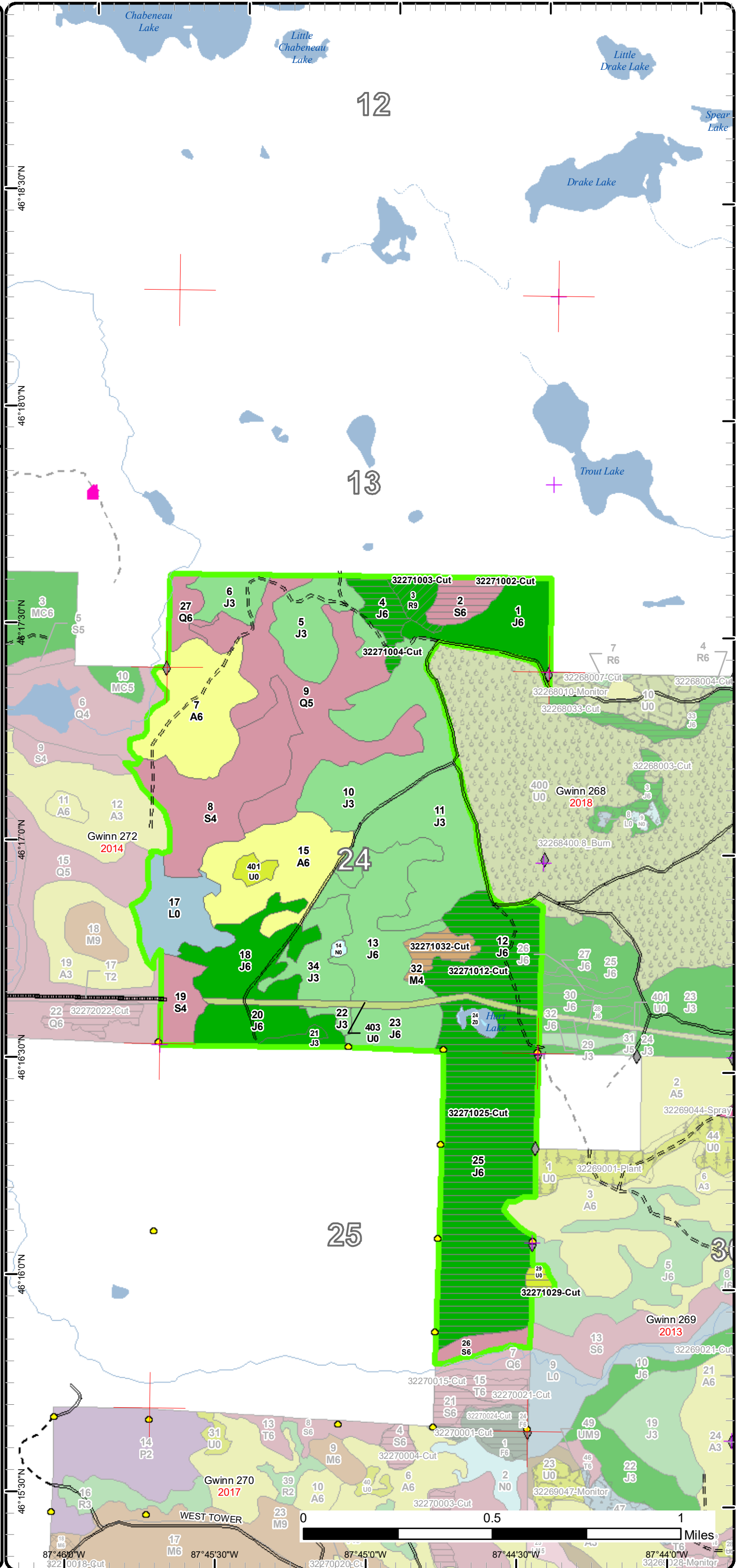
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 271
 T45N, R28W, Sec. 13, 24, 25
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2021
 Acres: 860 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 8/19/2019
 Map Phase: Web-Post

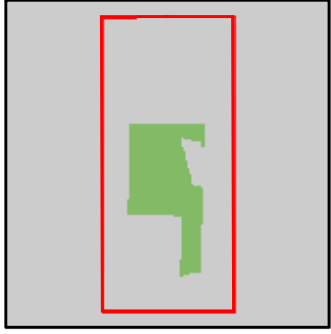


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- - Federal / State - Dirt / Gravel Road
- - Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Structure, Seasonal Dwelling
- Structures
- Pipeline
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes

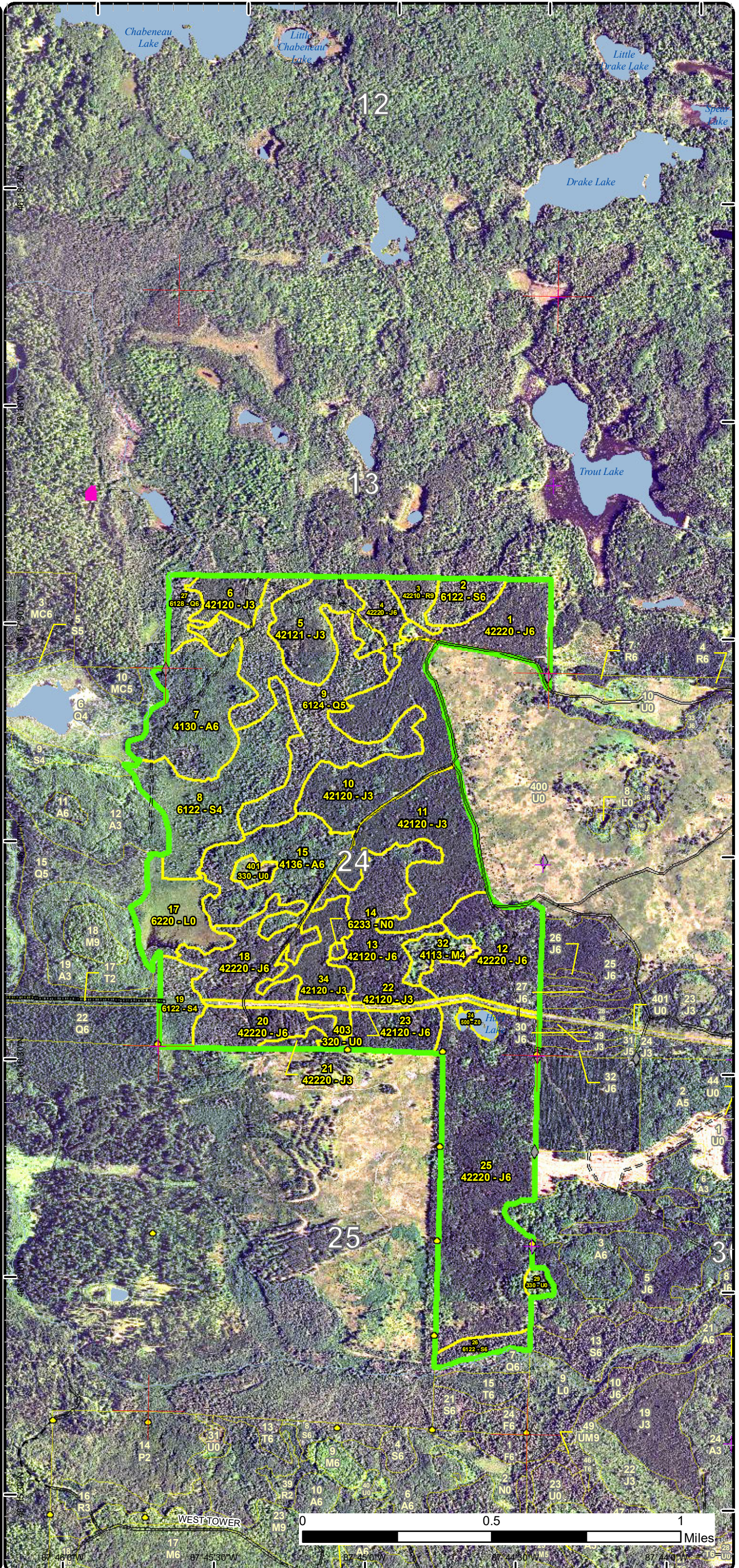


Stand Boundary Map

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 T45N, R28W, Sec. 13, 24, 25
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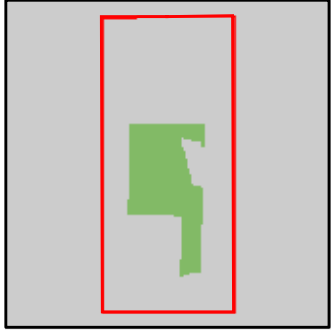


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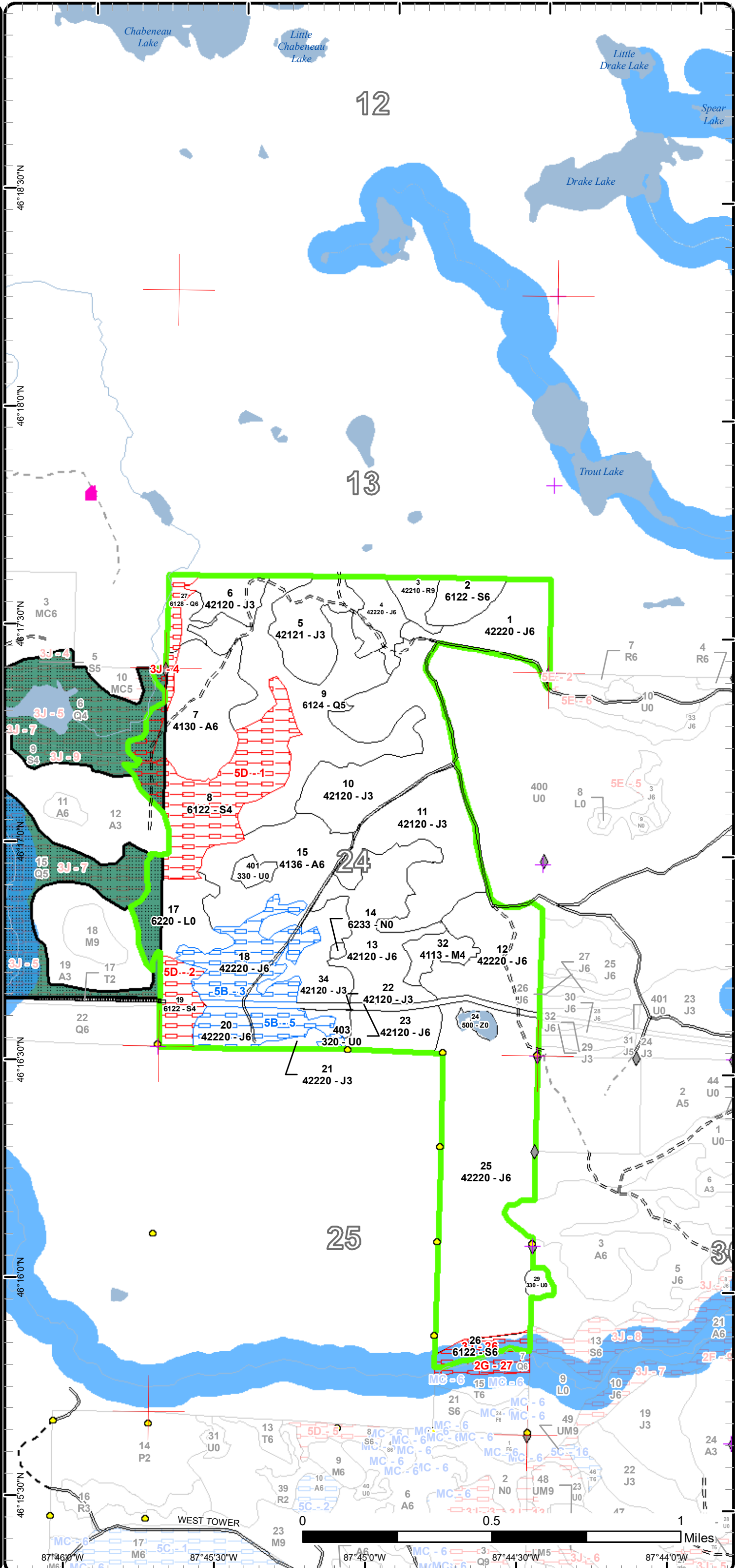


Special Conservation Areas & Site Conditions Map

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- Perennial River
- Lakes and Rivers All
- Structure, Seasonal Dwelling
- Structures
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Habitat Corridor



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	0	0	0	96	0	0	0	0	0	0	0	0	0	0	0	0	0	96
Jack Pine	0	0	0	186	93	244	0	0	0	0	0	0	0	0	0	0	0	0	523
Low-Density Trees	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88	87
Lowland Shrub	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	82	90
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Northern Hardwood	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	10
Red Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8
Upland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	47	0	0	186	189	244	10	0	0	0	8	0	0	0	0	0	0	178	861



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 271

Total Compartment Acres: 860

Commercial Harvest - 221
 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
Jack Pine	189	0	0	0	0	0	0	0	0	189
Low-Density Trees	3	0	0	0	0	0	0	0	0	3
Lowland Spruce/Fir	12	0	0	0	0	0	0	0	0	12
Northern Hardwood	10	0	0	0	0	0	0	0	0	10
Red Pine	0	0	0	0	0	8	0	0	0	8
Total	213	0	0	0	0	8	0	0	0	221

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	221	0	0	0	0	0	0	0	0	221
Next Step	0	353	365	158	0	451	524	0	0	1851
Total	221	353	365	158	0	451	524	0	0	2072



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	Approval Status
2	32271002-Cut	11.9	6122 - Black Spruce	Poletimber Well	76	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Cut all trees leaving a retention pocket in the middle of the stand which contains some black spruce. Leave only red and white pine and tamarack within the stand.

Next Step Monitoring, Natural Regen (Re-Inventory); Seeding, Hand Seed
Treatments:

Acceptable Spruce, fir, tamarack, mixed hardwood
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

3	32271003-Cut	7.8	42210 - Natural Red Pine	Sawtimber Well	75	171- 200	Harvest	Crown Thinning	4221 - Natural Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to 100 square feet. Trees showing defect and that are suppressed should be marked first, then spacing should be considered in removal order. do not mark white pine, paper birch, and red maple.

Next Step
Treatments:

Acceptable
Regen:

Other Treatment will improve or protect habitat for red crossbill, pileated woodpecker, black bear. This stand was purchased by state game funds.
Comment:

Proposed Start Date: 10/1 /2020

4	32271004-Cut	12.2	42220 - Natural Jack Pine	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	4212 - Planted Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees, leaving only red pine, red maple, and white pine. Leave retention pocket on the far south end of the stand.
Specs:

Next Step Seeding, Machine Seed; Monitoring, Direct Seeding; Pesticide, Skidder - Site Prep; Planting, Replant
Treatments:

Acceptable Jack pine, spruce, white pine, red pine.
Regen:

Other Regenerate stand by trenching and seeding or planting stand. Do not use herbicide. Include stands 12 and 25 in reforestation treatments.
Comment: Treatment will improve or protect habitat for black bear. This stand was purchased by state game funds.

Proposed Start Date: 10/1 /2020

12	32271012-Cut	42.9	42220 - Natural Jack Pine	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees, leaving only red pine and white pine. Leave retention pocket on the far west end of the stand which includes paper birch.
Specs:

Next Step SitePrep, Trenching; SitePrep, Roller Chopping; Pesticide, Skidder - Release; Planting, Replant; Planting, Initial Plant; Pesticide, Aerial -
Treatments: Site Prep; Pesticide, Skidder - Site Prep; Pesticide, Aerial - Release; Monitoring, Artificial Re

Acceptable Red pine
Regen:

Other Regenerate stand by trenching and seeding or planting stand. Herbicide if necessary. Include stands 4 and 25 in reforestation treatments.
Comment: Include 32272022-cut in sale.

Proposed Start Date: 10/1 /2020



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	Approval Status
25	32271025-Cut	133.7	42220 - Natural Jack Pine	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Cut all trees, leaving only red pine and white pine. Leave retention pocket on the east end of the stand which includes red maple and paper birch near adjacent harvest on compartment 269.

Specs:

Next Step Pesticide, Skidder - Site Prep; Seeding, Machine Seed; Monitoring, Direct Seeding; SitePrep, Trenching; SitePrep, Roller Chopping;

Treatments: Pesticide, Aerial - Site Prep; Planting, Initial Plant; Planting, Replant; Monitoring, Artificial Regen(1yr)

Acceptable Jack pine, fir, spruce

Regen:

Other Regenerate stand by trenching and seeding or planting stand. Herbicide if necessary. Include stands 12 and 4 in reforestation treatments.

Comment: Herbicide should not be used in the north part of this stand (Game Fund Purchased).

Proposed Start Date: 10/1 /2020

29	32271029-Cut	3.0	330 - Low-Density Trees	Nonstocked	0	Unspec ified	Harvest	Clearcut	3103 - Rubus- Fern		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees except oak, red and white pine. to keep stand open.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable forest opening

Regen:

Other A small part of this stand was purchased by state game funds.

Comment:

Proposed Start Date: 10/1 /2020

32	32271032-Cut	9.6	4113 - R.Maple, Conifer	Poletimber Poor	50	1-50	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Clearcut leaving only paper birch, red and white pine if present. No other retention to be left due to small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Red maple, jack pine, birch, red, and white pine

Regen:

Other Stand is quite hilly and may not be fully forested after harvest but some open land within compartment is valuable for diversity and wildlife.

Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 221.1**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 271
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5B	3J	5D	5E
96	88	0	8	Aspen		8		
522	467	55	0	Jack Pine	55	0		0
7	7	0	0	Low-Density Trees				
88	82	0	6	Lowland Conifers		6		
27	27	0	0	Lowland Shrub				
90	12	0	78	Lowland Spruce/Fir		8	70	
1	1	0	0	Marsh				
10	10	0	0	Northern Hardwood				
8	8	0	0	Red Pine				
9	9	0	0	Upland Shrub				
3	3	0	0	Water				
860	715	55	91	Total Forested Acres	55	21	70	0
	83%	6%	10%	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	5D: Unproductive Forest Land	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5D: Unproductive Forest Land	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	5B: Maintain for regeneration purposes	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

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Rick Hill : Examiner

Compartment: 271
Year of Entry: 2021

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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
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Comments



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.
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	42220 - Natural Jack Pine	Poletimber Well	29.9	33	Immature	N/A	Stand harvested in 1984-85																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>98</td> <td>Pole</td> <td>6</td> <td>33</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	98	Pole	6	33	<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	5 - 10 feet	Sapling	Balsam Fir	Low	10 - 20 feet	Sapling																							
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3	42210 - Natural Red Pine	Sawtimber Well	7.8	75	171-200	N/A	Was commercially thinned in 1976: permit #6-76. Was commercially thinned a second time (sawlog stand) in Fall of 2003 under permit #116-01-01 "South Gate Pine Sale".																																									
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4	42220 - Natural Jack Pine	Poletimber Well	12.2	49	51-80	N/A	Stand had overstory removal harvest done in 1984-85, Remaining trees are average age of 49.																																									
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5	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	30.2	29	Immature	N/A	Stand was clearcut in 1984-1985. Stand was trenched and hand planted in 1990. Aspen completion is a problem in portions of this stand. At this juncture carry it through the rotation.																																									
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7	4130 - Aspen	Poletimber Well	48.6	34	Immature	N/A	This stand was clearcut in 1985. Abundant spruce-fir in understory.																																									
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8	6122 - Black Spruce	Poletimber Poor	55.5	82	1-50	N/A	Lowland brush inclusions. Very wet and nonproductive stand.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
9	6124 - Lowland Spruce-Fir	Poletimber Medium	78.5	75	1-50	N/A	Wide ranging species composition, stocking, and size classes in this lowland conifer type.																																					
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10	42120 - Planted Jack Pine	Sapling Well	60.9	29	Immature	N/A	Stand was clearcut in 1985-1986, portions were sprayed to control competition in 1990. Area was trenched and hand planted to jack pine in May 1996.																																					
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14	6233 - Wet Meadow	Nonstocked	1.0		Unspecified	No	Kettle hole.																																					
15	4136 - Aspen, Mixed Conifer	Poletimber Well	47.0	34	Immature	N/A	Stand clearcut in 1985. Wide ranging stocking and size classes. Contains spruce/fir and jack pine inclusions.																																					
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17	6220 - Alder/willow	Nonstocked	27.0		Unspecified	No																																						
18	42220 - Natural Jack Pine	Poletimber Well	33.4	49	51-80	N/A	Overstory jack pine cut in 1985. Full range of stocking and size classes with much still in sapling size class.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
19	6122 - Black Spruce	Poletimber Poor	14.6	82	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Black Spruce		75	Pole/Sapling	6	82				
Tamarack		25	Sapling	6					
20	42220 - Natural Jack Pine	Poletimber Well	21.3	49	1-50	N/A	Overstory jack pine cut in 1985. Full range of stocking and size classes with much still in sapling size class.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Black Spruce		10	Pole/Sapling	7		Jack Pine	Medium	Variable	Sapling
Jack Pine		87	Pole/Sapling	7	49				
21	42220 - Natural Jack Pine	Sapling Well	3.6	25	Immature	N/A	Stand cut in 1994 under permit #18-91. Stand was planted to jack pine in 1994.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		10	Log/Pole	14					
Jack Pine		90	Sapling	4	25				
22	42120 - Planted Jack Pine	Sapling Well	2.9	25	Immature	N/A	Stand cut in 1994 under permit #18-91. Stand was planted to jack pine in 1994.		
Canopy Species		% Cover	Size Class	DBH	Age				
Jack Pine		100	Sapling	4	25				
23	42120 - Planted Jack Pine	Poletimber Well	17.0	39	81-110	N/A	Stand planted in spring of 1980 under FTP #C31-33.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Jack Pine		96	Pole/Sapling	7	39	Balsam Fir	Low	10 - 20 feet	Sapling
24	500 - Water	Nonstocked	3.4		Unspecified	No			
25	42220 - Natural Jack Pine	Poletimber Well	133.7	49	81-110	N/A	Ranging stocking and quality. Contains several semi-open areas that along with jack pine supports red maple scrub, small amounts of aspen, and a few white birch.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen		12	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
Jack Pine		80	Log/Pole	10	49	Balsam Fir	Low	5 - 10 feet	Sapling
26	6122 - Black Spruce	Poletimber Well	7.6	106	81-110	N/A	Buffer to the Camp Eleven Creek.		
Canopy Species		% Cover	Size Class	DBH	Age				
Black Spruce		65	Pole	8	106				
Tamarack		20	Pole	8					
Jack Pine		15	Pole	8					
27	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.3	182	1-50	N/A	Wide ranging species composition, stocking, and size classes in this lowland conifer type.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments															
29	330 - Low-Density Trees	Nonstocked	3.0	0	Unspecified	Managed Opening	Ranging stocking and quality. Contains several semi-open areas that along with jack pine supports red maple scrub, small amounts of aspen, and a few white birch.															
32	4113 - R.Maple, Conifer	Poletimber Poor	9.6	50	1-50	N/A	Semi open red maple and jack pine.															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>60</td> <td>Pole</td> <td>8</td> <td>50</td> </tr> <tr> <td>Jack Pine</td> <td>35</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	60	Pole	8	50	Jack Pine	35	Pole	8	
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Red Maple	60	Pole	8	50																		
Jack Pine	35	Pole	8																			
34	42120 - Planted Jack Pine	Sapling Well	20.8	25	Immature	N/A	Stand cut in 1994 under permit #18-91. Stand was planted to jack pine in 1994.															
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401	330 - Low-Density Trees	Nonstocked	4.2		Unspecified	Managed Opening	Opening was seeded in 1991.															
403	320 - Upland Shrub	Nonstocked	9.3		Unspecified	No	Old ELF ROW.															