



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32264

Entry Year 2019

Acreage: 1,129

County Marquette

Management Area: Chain Lakes Moraine

Revision Date: 2017-08-08

Stand Examiner: Rick Hill

Legal Description:

T45N R27W Sec. 28 and 33.

Identified Planning Goals:

Management in the Chain Lake management area will provide a variety of forest products; maintain or enhance wildlife habitat; protect areas with unique characteristics; and provide for forest based recreation.

Soil and topography:

Area ranges from sandy uplands to poorly drained clay to wetlands with organic soils. Topography is rolling hills with some pothole lakes and streams crossing the area. streams generally have broad riparian flood plains.

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

The vast majority of this area is state forest land there are a few private parcels and camps in the area. Despite the limited development in this area electric and phone service are available on Kates grade. The abandoned naval ELF system ROW is also present in the compartment.

Unique Natural Features:

This compartment does not have any unique features.

Archeological, Historical, and Cultural Features:

There are some old logging camps in the compartment area. most have little remaining beyond earthen foundations. There are also some associated railroad grades in the area from the logging era.

Special Management Designations or Considerations:

The Camp 11 Creek and Bryan Creek are high quality cold water streams and require larger buffers to maintain their high-quality status.

Watershed and Fisheries Considerations:

The Northern region of this compartment contains Bryan Creek which serves as a tributary to the West Branch of the Escanaba River. Bryan Creek is designated a Research Area (designated trout stream) less than 50' width. A 300' buffer is recommended for Bryan Creek in areas susceptible to Aspen regeneration (specifically stands 63, 69). This compartment contains Big Brook which serves as a tributary to Bryan Creek. Big Brook is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for Big Brook in areas susceptible to Aspen regeneration (specifically stands 23, 34, 35, 36). This compartment also contains Kidney Lake. For all riparian areas, Best Management Practices should be followed.

Wildlife Habitat Considerations:

Compartment 264 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; course 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 Chain Lakes Management Area: black bear, gray jay, pileated woodpecker, Northern goshawk, red crossbill.

Mineral Resource and Development Concerns and/or Restrictions

Section 28 &33, T45N R27W, Marquette County

Sand/gravel pits are not located in the area, but there may be some potential within the compartment. While the

compartment has not experienced any metallic mineral leasing, there has been prior leasing in the area. There is no economic oil and gas production in the UP. The state does not own the mineral rights beneath most of the compartment

Vehicle Access:

The County Road known as Kates Grade (designated CoRd PX) provides primary vehicular access through this compartment east-west, connecting to the Charlie Lakes Road, Bryan Creek Road, and Camp 11 Truck Trail. It is a relatively narrow dirt road built on the route of an old railroad grade. Secondary tributary roads leading into the compartment are in general poor dirt two track roads. The existing road crossing the SW1/4 of Sec 28 has been used with permission of the private landowner in the past to access State timber. No easement exists.

Survey Needs:

Some survey work may be needed for timber sale work in the compartment.

Recreational Facilities and Opportunities:

Only low-key recreational activities common to most compartments, such as hunting, fishing, hiking, berry & mushroom picking, trapping, etc. are available in this compartment.

Fire Protection:

This area has relatively good access and fuels that do not lend themselves fast fire growth. The vast majority of the compartment is easy to fight fire using standard mechanized tactics.

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**

Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment 264 Year of Entry 2019

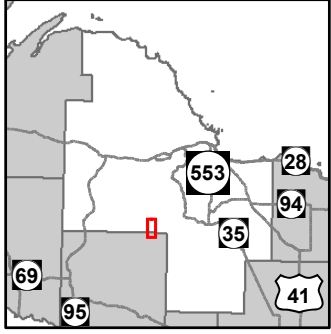


Age Class

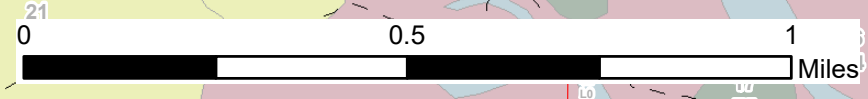
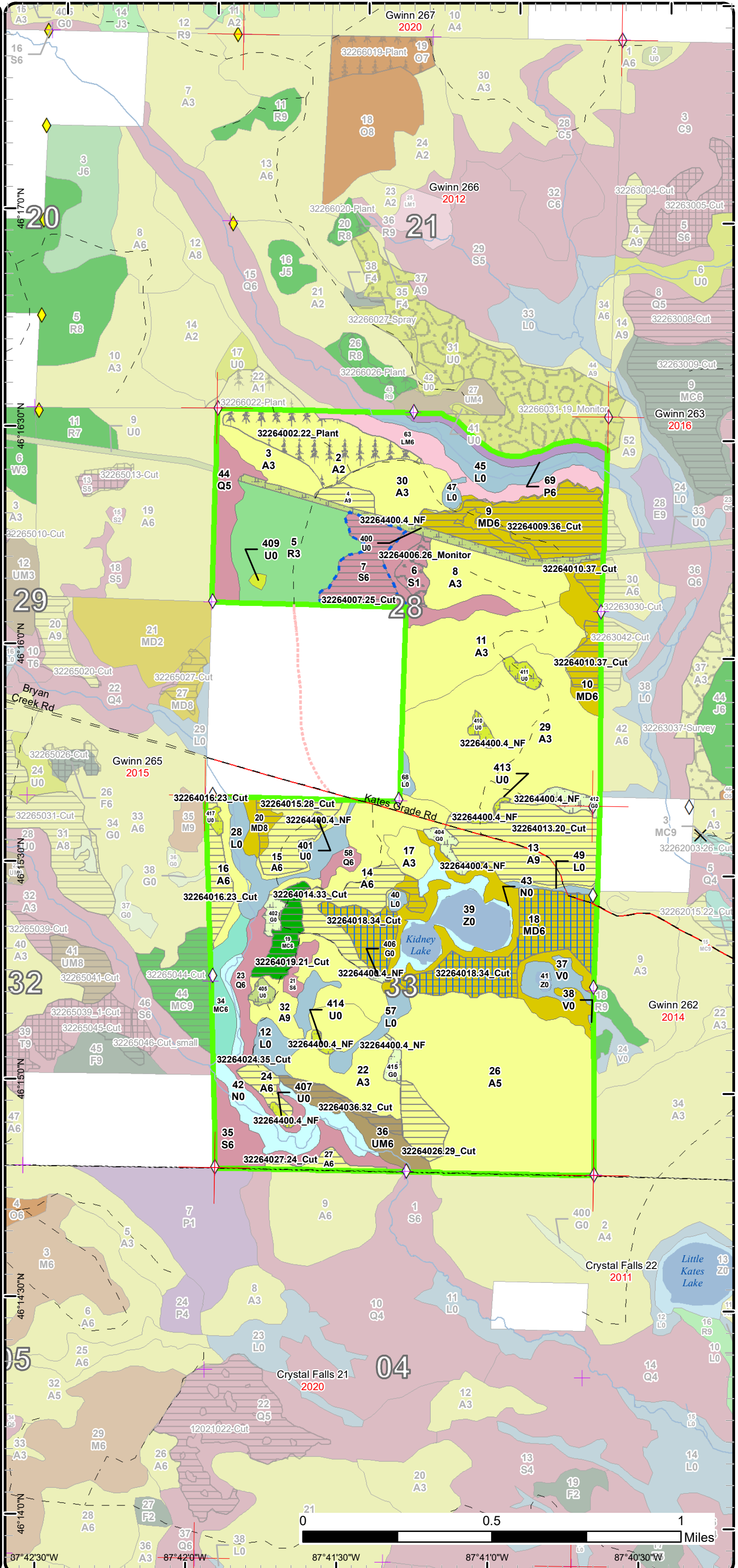
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	21	228	32	144	137	5	0	0	0	0	0	0	0	0	0	0	18	584
Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Herbaceous Openland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Low-Density Trees	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	18	0	0	0	0	4	0	15	0	0	0	0	0	0	37
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	22
Lowland Shrub	64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64
Lowland Spruce/Fir	0	6	0	0	0	4	0	0	33	0	0	21	0	0	0	0	0	0	64
Marsh	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37
Mixed Upland Deciduous	0	0	0	0	0	7	62	0	0	0	87	0	0	0	0	0	0	0	156
Natural Mixed Pines	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
Red Pine	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50
Upland Conifers	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	12
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	17
Upland Shrub	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Total	168	27	228	82	162	159	67	0	43	4	122	53	0	0	0	0	0	18	1130

Cover Type & Treatments Map

Compartment: 264
 T45N, R27W, Sec. 28, 33
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2019
 Acres: 1128.8 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 1/12/2018
 Map Phase: Post-Review



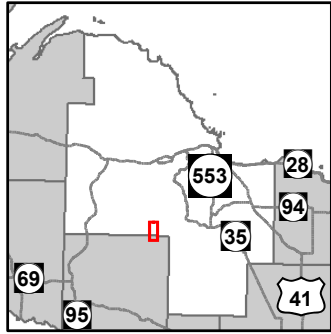
- Miris Corners
- Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
- ✕ Gate
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Treatments with Site Conditions
- Other Treatment - See Comments
- Planting (tree species)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Regeneration Survey
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- Lakes



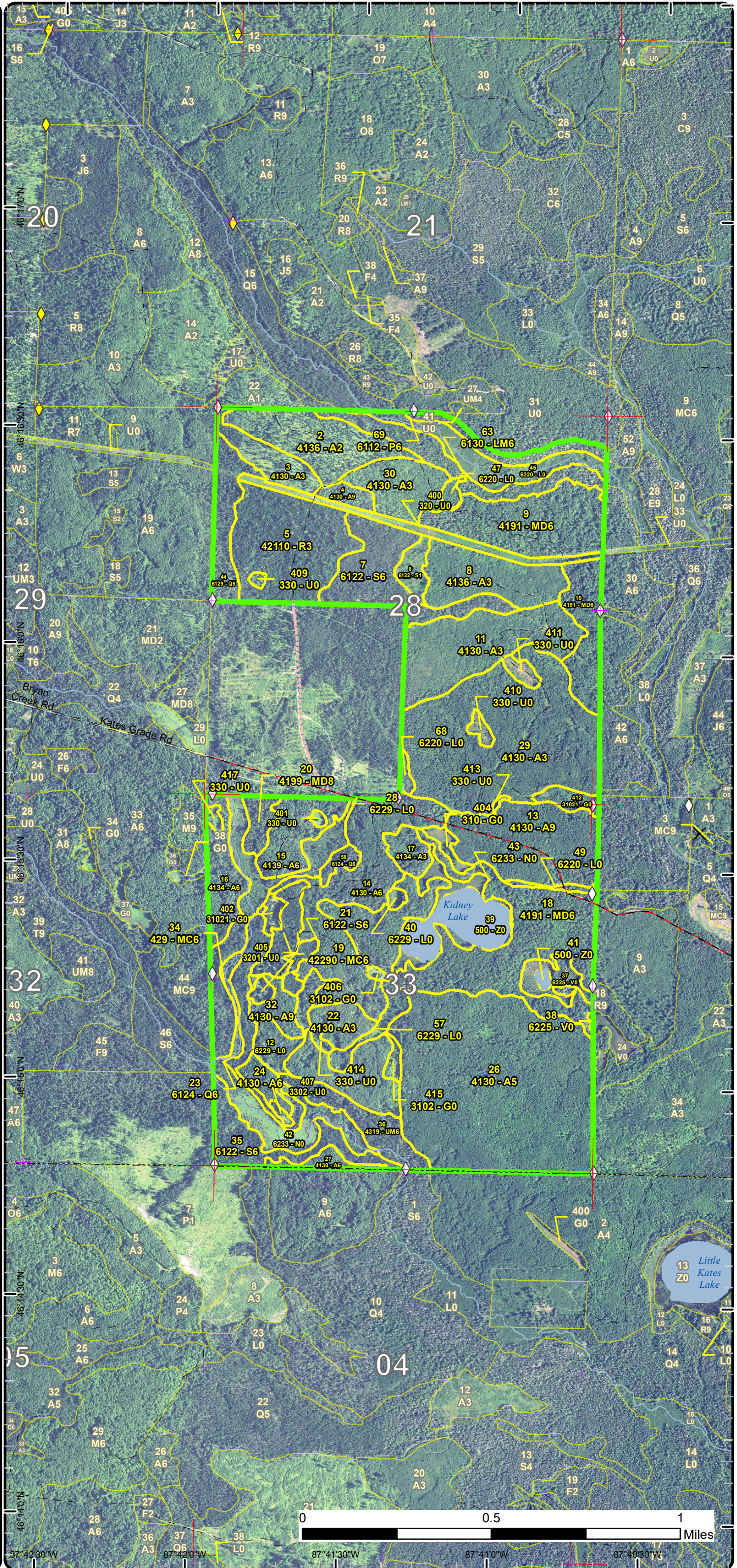
87°42'30"W 87°41'30"W 87°41'0"W 87°40'30"W

Stand Boundary Map

Compartment: 264
 T45N, R27W, Sec. 28, 33
 County: Marquette
 Unit: Gwinn
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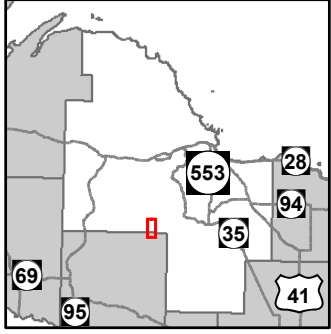


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Counties
- X Gate
- Gravel Roads
- County Poor Dirt Roads
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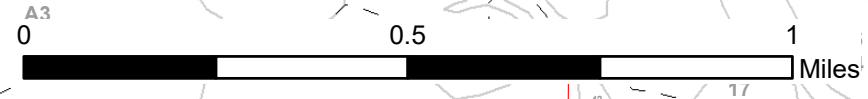
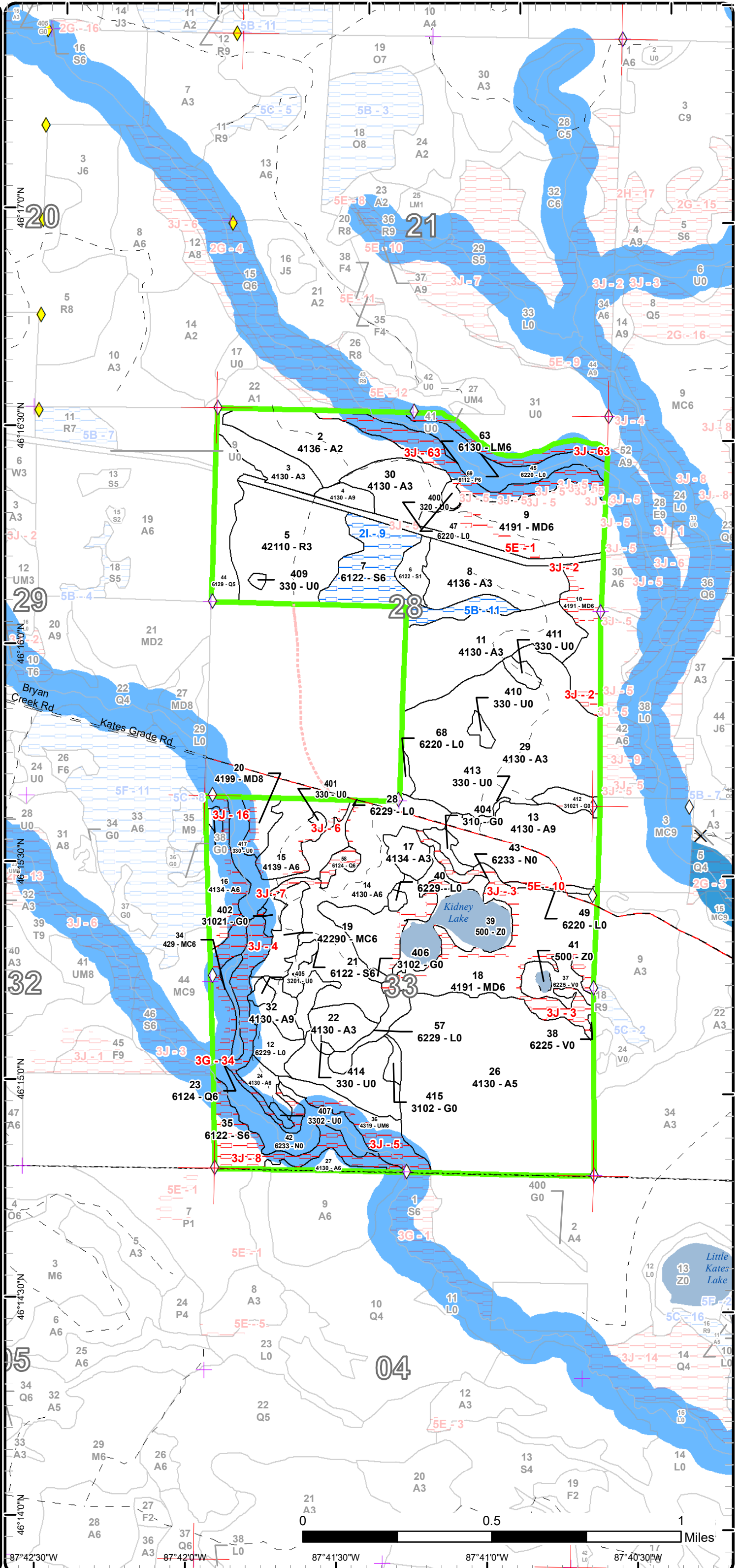


Special Conservation Areas & Site Conditions Map

Compartment: 264
 T45N, R27W, Sec. 28, 33
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Chain Lakes Moraine
 YOE: 2019
 Acres: 1128.8 GIS Calculated
 Examiner: Rick Hill
 Map Revised: 1/12/2018
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◆ Field Grade GPS Corners
- Counties
- X Gate
- Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Habitat Corridor



87°42'30"W 87°42'0"W 87°41'30"W 87°41'0"W 87°40'30"W



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2019

Acres of Harvest

Compartment 264

Total Compartment Acres: 1,129

Commercial Harvest - 235
 Harvests with Site Condition - 20
 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	117	0	0	0	0	0	0	0	0	117
Lowland Spruce/Fir	20	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	48	0	0	53	0	0	0	0	0	101
Natural Mixed Pines	11	0	0	0	0	0	0	0	0	11
Upland Mixed Forest	6	0	0	0	0	0	0	0	0	6
Total	203	0	0	53	0	0	0	0	0	256

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	256	0	32	0	0	6	0	39		333
Next Step	0	53	21	64	0	11	309	0	39	496
Total	256	53	53	64	0	11	315	0	79	829



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	32264002.22_ Plant	31.7	4136 - Aspen, Mixed Conifer	Sapling Medium	15	Immature	Planting	Interplant	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Hand plant oak, white pine and red pine to fill in gaps within stand.

Specs:

Next Step Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Oak, white pine, red pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

4	32264004.27_ Cut	4.7	4130 - Aspen	Sawtimber Well	53	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand leave all red pine, white pine, and also leave a few paper birch marked to leave. No retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, spruce, fir, mixed hardwood, mixed pine, birch

Regen:

Other

Comment: WLD - Retain some paper birch (3%) – pileated woodpecker (State Game Funds) Aspen- ruffed grouse (Red Shouldered Hawk Nest)

Proposed Start Date: 10/01/2018

6	32264006.26_ Monitor	6.2	6122 - Black Spruce	Sapling Poor	6	1-50	Monitoring	Natural Regen (Intermediate)	6126 - Lowland Jack Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Count Per WI to judge Regen.

Specs:

Next Step

Treatments:

Acceptable Spruce, fir, aspen, maple mixed pine

Regen:

Other

Comment:

Proposed Start Date: 10/01/2022

7	32264007.25_ Cut	20.4	6122 - Black Spruce	Poletimber Well	78	51-80	Harvest	Clearcut with Retention	6124 - Lowland Spruce-Fir	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Survey Needed**

Prescription Clearcut stand, leaving red pine and white pine. Retention made up of a representative sample including birch should be left on the west side of the stand in pockets along adjacent red pine stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Black spruce, tamarack, fir, mixed pine.

Regen:

Other

Comment: WLD - Retention should include mature tamarack (gray jay) and black spruce (red-crossbill) and some paper birch (2%) pileated woodpecker.

Comment: Retention should be 10% or better (Red Shouldered Hawk Nest) (State Game Funds)

Proposed Start Date: 10/01/2018



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
9	32264009.36_ Cut	37.4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	55	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut stand, Leave 7-10% of stand area in buffers and patches focused in wet areas of the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, mixed aspen, mixed hardwood.

Regen:

Other Approved though chapter 7 (8/17/16)

Comment:

Proposed Start Date: 10/01/2008

10	32264010.37_ Cut	11.0	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	53	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand leaving 7-10% of stand in wet areas and drains.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, mixed hardwood, mixed conifer

Regen:

Other Approved though a Chapter 7 (8/17/16)

Comment:

Proposed Start Date: 10/01/2008

13	32264013.20_ Cut	43.7	4130 - Aspen	Sawtimber Well	48	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand using a 2 inch spec. Leave only red pine, white pine, and oak if present. Leave retention along the alder on the south end of the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, mixed hardwood and mixed conifer

Regen:

Other WLD - Retention all paper birch (2%) pileated woodpecker and some red maple (cavity nesters) Retaining these trees will not influence regeneration or the logging operation.

Comment:

Proposed Start Date: 10/01/2018

14	32264014.33_ Cut	19.2	4130 - Aspen	Poletimber Well	45	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand using a 2 inch spec. leave only red pine, white pine, and oak if present. Leave retention on the east side of the stand along the lowland brush pocket.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, fir, spruce, mixed hardwood

Regen:

Other WLD - Agree with treatment but retain should include Paper Birch (2%) pileated woodpecker and White Spruce (2%) red crossbill (North half of stand State Game Funds)

Comment:

Proposed Start Date: 10/01/2018



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
15	32264015.28_ Cut	18.8	4139 - Aspen, Mixed Deciduous	Poletimber Well	47	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all trees using a 2 inch spec, except leave all white pine, oak, and red pine. Green tree some bigger hardwood in the small hardwood
Specs: inclusion in the north end of the stand. Retention is going to be placed along streams.

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

Acceptable Aspen, spruce, fir, mixed hardwood
Regen:

Other WLD - Retention should also include all black Cherry (2%) black bear, some White Spruce (2%) red crossbill, Elm (2%) and Basswood (4%) f or
Comment: diversity. (State Game Funds)

Proposed Start Date: 10/01/2018

16	32264016.23_ Cut	9.8	4134 - Aspen, Spruce/Fir	Poletimber Well	48	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand using a 2 inch spec, leave all oak, white pine, red pine. retention will be the buffer along the adjacent cold water stream.
Specs:

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

Acceptable Aspen, spruce, fir, mixed hardwood
Regen:

Other WLD - Retention should also include all Black Spruce (4%) red crossbill and gray jay, and much of the White Spruce (8%) red crossbill, Elm (2%)
Comment: and some Basswood (4%) for diversity. (most of this stand is State Game Funds) (This stand will be added to Compartment 265 stand 32)

Proposed Start Date: 10/01/2024

18	32264018.34_ Cut	52.9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	93	81-110	Harvest	Seed Tree with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark red pine, and birch to leave as seed trees. leave all white pine and oak. Target around 10 square feet of residual. Area retention is located
Specs: around kidney lake and the small bog to the east of the stand.

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

Acceptable Birch, aspen, red pine, white pine, oak, mixed hardwood, mixed softwood.
Regen:

Other In areas where aspen is not present a scarify with anchor chains to facilitate birch and pine regeneration.
Comment:

WLD - Green tree mark some large Red Maple (cavity nesters)

Proposed Start Date: 10/01/2018

19	32264019.21_ Cut	10.6	42290 - Natural Mixed Pine	Poletimber Well	45	51-80	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut all trees except mark some red pine and white pine to leave. Look to leave seed tree levels of red and white pine where possible. use a
Specs: 2 inch spec to cut sub-merchantable fir that has spruce budworm. leave retention along the north end of the stand.

Next Step Seeding, Machine Seed; Planting, Initial Plant; Pesticide, Skidder/Mechanical; Monitoring, Direct Seeding; Planting, Initial Plant;
Treatments: Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Jack pine, spruce, fir, aspen, mixed hardwood
Regen:

Other WLD - Agree with Treatment (North end of stand is State Game Funds)
Comment:

Proposed Start Date: 10/01/2018



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
24	32264024.35_ Cut	5.6	4130 - Aspen	Poletimber Well	45	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut stand using a 2 inch spec, Leaving only oak, white pine, and red pine. Retention should be left in the river buffer to the west.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, spruce, fir, mixed hardwood

Regen:OtherComment:

Proposed Start Date: 10/01/2018

26	32264026.29_ Cut	10.5	4130 - Aspen	Poletimber Medium	39	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut all trees except leave all red pine, white pine, oak, and cherry. Leave a pocket of retention on the west side of the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, fir, spruce, mixed hardwood

Regen:OtherComment:

Proposed Start Date: 10/01/2018

27	32264027.24_ Cut	4.8	4130 - Aspen	Poletimber Well	45	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand, with stand 9 to the south using that stands prescription. Area retention should be along the north end of the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, mixed conifer, mixed hardwood.

Regen:Other

Comment: WLD - This stand will be cut with stand 9 (State Game Fund) in Monica's area at that time the spec from stand 9 should be used in 27.

Proposed Start Date: 10/01/2019

36	32264036.32_ Cut	6.3	4319 - Mixed Upland Forest	Poletimber Well	102	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut stand using a 2 inch spec. leave all white pine and red pine also green tree a few birch. Retention will be steam buffer.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixed hardwood, birch, spruce, fir, aspen.

Regen:Other

Comment: WLD - Retention should include some tamarack (gray jay and red crossbill).

Proposed Start Date: 10/01/2018



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
400	32264400.4_N F	39.4	320 - Upland Shrub	Nonstocked	32	Immature	NonForestMgt	Other - Specify	3102 - Grass		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Plant scattered mast producing trees as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.

Next Step NonForestMgt, Other - Specify
Treatments:

Acceptable Site to be maintained as opening.
Regen:

Other Site to be maintained as opening. If adjacent stands are to be harvested, please consult with Wildlife Technician Caleb Eckloff for practices to maintain the opening. Examples include roller-chopping, herbicide, minimum harvest spec., etc. to clear encroaching vegetation.

Proposed Start Date: 01/01/2018

**Total Treatment
Acreage Proposed: 333.0**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 264
Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions					
		With Condition			2I	5B	3G	3J	5E	
583	570	0		14	Aspen				12	1
9	9	0		0	Bog					
14	14	0		0	Herbaceous Openland				0	
12	12	0		0	Low-Density Trees				0	
10	0	0		10	Lowland Aspen/Balsam Poplar				10	
36	18	0		19	Lowland Conifers				19	
21	1	0		20	Lowland Mixed Forest				20	
64	63	0		1	Lowland Shrub				1	
64	10	33		21	Lowland Spruce/Fir	20	12		21	
37	37	0		0	Marsh			0		
156	109	0		48	Mixed Upland Deciduous				44	3
11	11	0		0	Natural Mixed Pines				0	
50	50	0		0	Red Pine					
12	4	0		9	Upland Conifers			9		
17	6	0		10	Upland Mixed Forest				10	
14	14	0		0	Upland Shrub					
18	18	0		0	Water					
1,129	945	33		151	Total Forested Acres	20	12	9	138	4
	84%	3%		13%	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	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 264
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3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	2I: Survey needed	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Rick Hill : Examiner

Compartment: 264
Year of Entry: 2019

10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5B: Maintain for regeneration purposes	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	3G: Other Influence zones - See comments	9	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
63	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	31	5E: Long-Term Retention	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	General Comments:
2	4136 - Aspen, Mixed Conifer	Sapling Medium	31.7	15	Immature	Was commercially cut by Gary Gazan Timber Contracting, Inc. in 2002 under permit #114-99-01, "Kates Grade ELF North Sale". Access was from the south off Kates Grade on existing roads across Steve Pascoe's property with his permission. Birch seed trees were marked to leave as well as leaving all oak, cherry, red & white pine. Only spruce having two or more sticks were cut. Current regeneration is made up off scattered fir and aspen of varying densities. Some sparse areas but these may function as grass openings for the interim.
3	4130 - Aspen	Sapling Well	13.3	6	Immature	Stand harvested spring of 2011 by Minerick Logging, Kidney Lake Sale, #32-111-09-01. A portion of this stand was removed from the sale after cutting had started due to a nest in an adjacent stand. Birch trees less than 10-inches at the stump were left as well as black spruce less than 6 inches at the stump and any red and white pine. An older permit #25/63 was issued to Ellsworth Kroon for the NWNW and specified to cut all jack pine 10 inch & larger in stump diameter. He cut over 200 cds in 1964.
4	4130 - Aspen	Sawtimber Well	4.7	53	81-110	Could have resulted from permit #25/63 issued to Ellsworth Kroon & cut in 1964. Besides cutting jack pine, it specified to cut all merchantable aspen.
5	42110 - Planted Red Pine	Sapling Well	50.3	23	Immature	Was commercially cut in Fall of 1991 by T&T Logging (St.John), permit #23-89-01, "Bryan Creek ELF Block". All red & white pine, cedar, & cherry was left, and only 3 stick & larger spruce was cut. Access was from the south on existing road with private owner (Steve Pascoe) permission. Mike Zuidema wrote an FTP #C31-307 dated Dec 1992, for herbiciding, disk trenching, & contract hand planting 1000 red pine per acre using 2-0 stock. Red pine was planted in May 1994. For what it's worth, an older permit #3/64 issued to Ellsworth Kroon on the SWNW specified to cut all jack pine 10 inch & larger in stump diameter -- and he cut 240 cds here in 1964. Currently in 2016, this plantation is red pine 3 to 6 inches in dbh. There is a significant mixture of other conifer species present as well: spruce, fir, jack pine, white pine, & tamarack, - especially along the edges (1 to 2 chains) bordering the swamp it is heavy to spruce & tamarack.
6	6122 - Black Spruce	Sapling Poor	6.2	6	1-50	Stand harvested in spring of 2011 by Minerick Logging, Kidney Lake Sale, #32-111-09-01. Black spruce less than 6-inches at the stump, red and white pine and white spruce were left. Some rutting occurred in the north part of the stand as it was quite wet.
7	6122 - Black Spruce	Poletimber Well	32.8	78	51-80	Not too wet for the most part. Definitely operable for logging. Somewhat patchy character, more tamarack in spots and some of the spruce is uneven aged with older trees. Overall appears healthy at present.
8	4136 - Aspen, Mixed Conifer	Sapling Well	29.6	14	Immature	Commercially cut under permit # 115-99-01, "Kates Grade ELF South", by Anderson Bros. for Oro Logging (St.John Forest Prod), beginning in July 2002 (got too wet), and finished in January 2003. All oak, cherry, red & white pine were left as well as 68 birch seed trees. Access was from the south, went around the east end of swamp. This was a tree length operation. In Oct 2006, birch regen was not found, and although it is variable in stocking, aspen is now the predominant specie. Spruce, fir, and red pine seedlings present to add diversity to the future stand. Some stump sprout origin red maple as well.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
9	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	41.8	55	81-110	This stand was cut commercially by Ellsworth and Lloyd Kroon (father & son) under permit 11/56A. This was a large "Scale Sale" covering 200 acres and parts of 4 Sections. All merchantable aspen & balm were to be cut as well as birch 6 inch & larger in dbh, and balsam 10 inch & larger in diam at stump height. This explains the scattered larger birch & fir in the stand currently (not a large volume though). Perhaps we could leave the birch for wildlife trees when we final harvest this stand. Also a spec in the original sale was "No cutting within 200 ft of the Bryan or North Branch Creek". This sale began in 1956 and was closed in Jan. 1963 -- last receipt was in 1962. Thus we are using 1962 for yr of origin here but it could be up to 6 yrs older. Doug Kroon (Lloyd's son) told me they had a bridge on the Bryan Creek when this stand was cut and some wood was hauled out to the north, but I found a road also existed where wood could move westward & then south to Kates Grade. A sale was prepped here in 2016 with stands in compartment 263 to from the Hot Dam Pulp sale.
10	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	20.4	53	51-80	This stand was cut commercially by Ellsworth and Lloyd Kroon (father & son) under permit #10/63 for the NESE. The north part of the stand could have been cut under permit 11/56A a couple of years earlier -- same permittee. All merchantable aspen, balm, & birch was to be cut, plus all fir 8 inch & larger in stump diameter. This stand was prepped in 2016 with adjacent compartment (263) Hot Dam Pulp. There are drains and areas of almost pure tag alder that were left out of the harvest.
11	4130 - Aspen	Sapling Well	45.9	14	Immature	Was commercially cut under permit #115-99-01, "Kates Grade ELF South", by Anderson Bros. for Oro Logging (St. John Forest Prod) beginning in July 2002 (got too wet) and finished in January 2003. Access was from south. Red & white pine, oak, and cherry was left. This was a tree length operation.
13	4130 - Aspen	Sawtimber Well	44.9	48	51-80	Was commercially cut in 1969 by Upper Great Lakes Timber, Inc. (Longyear), forester was Ed Locke. Permit #31/68A. A Scale sale to cut all merch. aspen, balm, birch, maple, and jack pine. Also all marked red pine, all merch. tamarack & fir, all three stick and larger black spruce, and all white spruce 12 inch & larger in stump diameter. It seems for some reason the entire proposed acreage was not cut due to some change in the status of the Company.
14	4130 - Aspen	Poletimber Well	57.0	45	51-80	Was commercially cut between 1970-73 by Makela Forest Products Co. of Negaunee, permit #22/69A. Company went out of business before entire sale was completed. Was to have covered the W1/2 of Sec 33. Specs called for cutting all merchantable aspen, balm, birch, maple, jack pine, fir, tamarack, basswood, & elm. Also all black spruce 2 sticks & larger, all white spruce 12 inch & larger in stump diameter, and all marked red & white pine. A Scale sale.
15	4139 - Aspen, Mixed Deciduous	Poletimber Well	17.9	47	111-140	Much of this stand was harvested around 1970 there are some areas that may have been missed at that time there is a small pocket of hardwood present the north end of this stand. An old Studebaker is present in the north end of this stand as well.
16	4134 - Aspen, Spruce/Fir	Poletimber Well	16.6	48	81-110	Treat with stand 33 to the west, slowly grades down to wetland.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	4134 - Aspen, Spruce/Fir	Sapling Well	7.3	6	Immature	Stand harvested spring 2011 by Minerick Logging, Kidney Lake Sale, #32-111-09-01. All trees except red and white pine, white spruce and some aspen and birch were harvested.
18	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	87.2	93	81-110	Stand centered around Kidney Lake.
19	42290 - Natural Mixed Pine	Poletimber Well	10.6	45	51-80	Was commercially cut between 1970-73 by Makela Forest Products Co. of Negaunee, permit #22/69A. Company went out of business before entire sale was completed. Was to have covered the W1/2 of Sec 33. Specs called for cutting all merchantable aspen, balm, birch, maple, jack pine, fir, tamarack, basswood , & elm. Also all black spruce 2 sticks & larger, all white spruce 12 inch & larger in stump diameter, and all marked red & white pine. This stand seems to be the result of that harvest and natural regeneration.
20	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	7.0	47	111-140	Was commercially cut between 1970-73 by Makela Forest Products Co. of Negaunee, permit #22/69A. This stand may have been the river buffer for the 1969 sale most of the aspen has fallen out there has not been much to replace it yet. a full coverage of hazel brush is present here.
21	6122 - Black Spruce	Poletimber Well	3.9	45	81-110	Was commercially cut between 1970-73 by Makela Forest Products Co. of Negaunee, permit #22/69A. Company went out of business before entire sale was completed. Was to have covered the W1/2 of Sec 33. Specs called for cutting all merchantable aspen, balm, birch, maple, jack pine, fir, tamarack, basswood , & elm. Also all black spruce 2 sticks & larger, all white spruce 12 inch & larger in stump diameter, and all marked red & white pine.
22	4130 - Aspen	Sapling Well	31.7	26	Immature	Was commercially cut in 1991, permit #28-89, T&T Logging Co. (Earl St.John), "Kidney Lake Block" . All cherry was left. No oak was present. A 2 inch cutting spec was used. Also an uncut buffer was left along the Camp 11 Creek. Lowland brush is a component of this stand. Access was from the north side -- road was bermed post sale.
23	6124 - Lowland Spruce- Fir	Poletimber Well	15.3	109	81-110	Riparian buffer along east side of Camp 11 Creek and a small tributary.
24	4130 - Aspen	Poletimber Well	5.6	45	81-110	Was commercially cut between 1970-73 by Makela Forest Products Co. of Negaunee, permit #22/69A. Company went out of business before entire sale was completed. Was to have covered the W1/2 of Sec 33. Specs called for cutting all merchantable aspen, balm, birch, maple, jack pine, fir, tamarack, basswood , & elm. Also all black spruce 2 sticks & larger, all white spruce 12 inch & larger in stump diameter, and all marked red & white pine. A Scale sale.
26	4130 - Aspen	Poletimber Medium	144.0	39	81-110	Was commercially cut in 1977-78 by Champion Timberlands of Norway (formerly Kimberly Clark Corp.), under permit #13/75A. All merchantable aspen, birch, maple, fir, and jack pine were to be cut as well as all black spruce 2 stick & larger, and all white spruce 3 stick & larger. Plus all marked red & white pine. No cutting within 200 ft of Camp 11 Creek. Access was from the northeast off of Kates Grade. Somewhat hilly terrain (ridges & potholes).



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4130 - Aspen	Poletimber Well	4.8	45	51-80	Was commercially cut between 1970-73 by Makela Forest Products Co. of Negaunee, permit #22/69A. Company went out of business before entire sale was completed. Was to have covered the W1/2 of Sec 33. Specs called for cutting all merchantable aspen, balsam, birch, maple, jack pine, fir, tamarack, basswood, & elm. Also all black spruce 2 sticks & larger, all white spruce 12 inch & larger in stump diameter, and all marked red & white pine. A Scale sale. An earlier permit # 23/64 was issued to Ed Giguere to cut this same stand (apparently he was cutting in Dickinson County closeby), but the sale was closed in 1967 and indicated that only 3 acres were cut -- he had headed for "greener pastures". An FTP written by Bruce Veneberg & Mike Pollard in 1972 for cutting residual following Makela's sale covers a portion of this stand south of the creek. Their map shows a trail road crossing the creek from the north but it is very hard to envision that access was ever gained across the creek.
29	4130 - Aspen	Sapling Well	100.5	15	Immature	Was first commercially cut in 1991 under permit #24-89, a much larger sale area, at which time all aspen was left for grouse budding, as well as 1 & 2 stick spruce. The aspen was finally harvested in July 2002 under permit #115-99-01 by Oro Logging (St.John), "Kates Grade ELF South Sale".
30	4130 - Aspen	Sapling Well	20.2	15	Immature	Was commercially cut in 2002 by Gary Gazan Timber Contracting, Inc., permit #114-99-01, "Kates Grade ELF North Sale". Access was from the south off of Kates Grade using existing roads across private land owned by Steve Pascoe with his permission. All oak, cherry, red & white pine was left, and only spruce with two or more sticks was cut. Stand has a conifer component (spruce/fir) that was pre-existing as advance regeneration.
32	4130 - Aspen	Sawtimber Well	7.6	45	111-140	Stand was commercially cut between 1970-73 by Makela Forest Products Co. of Negaunee, permit #22/69A. Company went out of business before entire sale was completed. Was to have covered the W1/2 of Sec 33. Specs called for cutting all merchantable aspen, balsam, birch, maple, jack pine, fir, tamarack, basswood, & elm. Also all black spruce 2 sticks & larger, all white spruce 12 inch & larger in stump diameter, and all marked red & white pine. A Scale sale.
34	429 - Mixed Upland Conifers	Poletimber Well	12.5	95	51-80	
35	6122 - Black Spruce	Poletimber Well	20.8	105	51-80	
36	4319 - Mixed Upland Forest	Poletimber Well	16.7	102	81-110	Riparian buffer to Camp 11 Creek. Includes some acreage south of the creek near the S1/4 corner.
44	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	17.5	36	Immature	Low stand with a mix of ages and density's some areas have extensive alder as well.
58	6124 - Lowland Spruce- Fir	Poletimber Well	3.5	84	51-80	
63	6130 - Fir, Aspen, Maple	Poletimber Well	21.5	93	1-50	Riparian buffer, serves as part of the no-cut buffer for Fisheries requirements and it is a rather short steep slope as well which would pose a potential for erosion if disturbed.

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Gwinn Mgt. Unit

Report 7 – Forested Stands

Compartment: 264
Year of Entry: 2019



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
69	6112 - Lowland Aspen	Poletimber Well	9.7	75	1-50	Riparian buffer stand created to comply with Fisheries request of no cutting within 300 ft of Bryan Creek.



Stand	Cover Type	Acres	Managed Site	General Comments:
12	6229 - Mixed lowland shrub	11.9	No	Lowland, with full coverage of tag alder and some tamarack and spruce as well.
28	6229 - Mixed lowland shrub	18.0	No	
37	6225 - Bog	8.2	No	small bog
38	6225 - Bog	0.3	No	
39	500 - Water	16.9	No	Kidney Lake
40	6229 - Mixed lowland shrub	1.4	No	
41	500 - Water	1.0	No	
42	6233 - Wet Meadow	24.3	No	Riparian buffer, marsh creek bottom through which the Camp 11 Creek flows. This is a floodplain and was a beaver pond on the last year of entry inventory. Creek is very wide here (15 ft or more).
43	6233 - Wet Meadow	12.7	No	Marsh bordering Kidney Lake.
45	6220 - Alder/willow	20.1	No	Riparian buffer, lowland brush creek bottom with a scattering of swamp conifers -- serving as a riparian influence zone along the Bryan Creek. Provides important wildlife cover & habitat.
47	6220 - Alder/willow	2.1	No	Some fir mixed in with the alder here.
49	6220 - Alder/willow	2.0	No	Wet drain separating stand 13 from 18.
57	6229 - Mixed lowland shrub	6.6	No	
68	6220 - Alder/willow	2.0	No	
400	320 - Upland Shrub	11.9	No	This is the former ELF row which was cleared to 100 ft wide around 1985, and abandoned in 2005. It is in very good condition currently regarding lack of ingrowth of brush or saplings. Maintenance was assisted by the deer hunters who set up portable (mounted on wheels) blinds on this row each deer season. We wish to keep this in an open condition for the near future for fire access, to function as a fuel brake, and for wildlife benefits.
401	330 - Low-Density Trees	0.8	Yes	Disc, drag, seed, & fertilize -- purpose is to enhance openings thru contract seeding to Birdsfoot Trefoil & Rye grass mix. Disc'd & seeded in Sept. 1984, in Aug. 1986, & in Sept. 1988.



Stand	Cover Type	Acres	Managed Site	General Comments:
402	31021 - Cool Season Grass	2.7	Yes	Stand was herbicided to eliminate jack pine reproduction and then seeded in Aug 1993. FTP #W31-269. Currently in 2006, this opening has been seeding in with conifer, especially red pine.
404	310 - Herbaceous Openland	3.3	Yes	FTP W31-129. Disc, drag, seed, & fertilize -- purpose is to enhance openings thru contract seeding to Birdsfoot Trefoil & Rye grass mix. Disked & seeded in Sept. 1984, in Aug. 1986, & in Sept. 1988.
405	3201 - Sweet Fern	2.1	Yes	FTP W31-129. Disk, drag, seed, & fertilize -- purpose is to enhance openings thru contract seeding to Birdsfoot Trefoil & Rye grass mix. Disked & seeded in Sept. 1984, in Aug. 1986, & in Sept. 1988. Currently in 2006, this opening has been seeding in with conifer, especially red pine.
406	3102 - Grass	0.9	Yes	FTP W31-129. Disc, drag, seed, & fertilize -- purpose is to enhance openings thru contract seeding to Birdsfoot Trefoil & Rye grass mix. Disked & seeded in Sept. 1984, in Aug. 1986, & in Sept. 1988.
407	3302 - Low Density Conifer Trees	1.1	Yes	W31-129. Disc, drag, seed, & fertilize -- purpose is to enhance openings thru contract seeding to Birdsfoot Trefoil & Rye grass mix. Disked & seeded in Sept. 1984, in Aug. 1986, & in Sept. 1988.
409	330 - Low-Density Trees	0.9	No	.
410	330 - Low-Density Trees	2.2	Yes	FTP W31-300. Rockrake, disk, & seed. Was seeded in Aug. 1993. This was a post sale treatment using previous landing sites. Access road was disked & seeded as well, and bermed.
411	330 - Low-Density Trees	3.0	Yes	FTP W31-300. Rockrake, disk, & seed. Was seeded in Aug. 1993. This was a post sale treatment using previous landing sites. Access road was disked & seeded as well, and bermed.
412	31021 - Cool Season Grass	5.0	Yes	FTP W31-300. Rockrake, disk, & seed. Was seeded in Aug. 1993. This was a post sale treatment using previous landing sites. Access road was disked & seeded as well, and bermed.
413	330 - Low-Density Trees	1.4	Yes	This opening is drawn on the map for FTP #W31-300, but I'm not sure if it was treated then or is it just an opening left after the timber sale. The FTP mentions four landing areas.
414	330 - Low-Density Trees	1.3	Yes	This grass opening was created as a post sale treatment to convert a landing site by rockrake, disk, & seeding. This was done in Aug of 1993. Trail leading to the landing was disked & seeded also, and bermed. FTP #W31-269.
415	3102 - Grass	2.4	Yes	This grass opening was created as a post sale treatment to convert a landing site by rockrake, disk, & seeding. This was done in Aug of 1993. Trail leading to the landing was disked & seeded also, and bermed. FTP #W31-269.



Stand	Cover Type	Acres	Managed Site	General Comments:
417	330 - Low-Density Trees	1.5	Yes	FTP #W31-124 written by Mike Koss in April 1984 covers the establishment of this grass opening. No mention of rock rake work, simply disking, & then seeding to clover/rye/orchard grass mix, plus access trail should be bermed. Seeding was done in 1984 & 1986. Mowing was done in 1985 & 1989. Heavy sod in places - used chisel plow, then disk. The Miris map and SID & TIF imagery shows this opening in Sec 33, but Mike Koss's FTP puts this opening in Sec 32 (Cmpt 265). That is where the FTP is filed and I added a copy to Cmpt 264 file. I believe the Section line runs through this opening and a small part of the west end is in Sec 32, but the bulk is in Sec 33. See stand #400 of Cmpt 265.