



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41039

Entry Year 2027

Acreage: 2,390

County: Schoolcraft

Management Area: Seney Lake Plain

Stand Examiner: Adam Petrelius

Legal Description:

T43N R16W Sections 19, 20, 29, 30

Identified Planning Goals:

This compartment lies within the Seney-Manistique Swamp Management Area. The main goal of this compartment is to conduct multiple resource management for current and future generations.

Soil and topography:

The topography in this compartment is mostly flat, with slightly higher elevations existing on the islands of pine and aspen located with the marsh. Soils in the compartment support mixed pine/aspen stands, lowland brush/marsh, and lowland conifer species. The major soil types found within the compartment, in order of abundance, are Markey Mucky Peat, Rousseau-Neconish-Spot Complex, Carbondale-Lupton-Tawas Mucks, and Deford-Augres-Rubicon Deep Water Table Complex. The major habitat types within the compartment, in order of abundance, are Unclassified Wetland, PVE, PARVAa, and PARV.

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

State land within this compartment was acquired between 1906 and 1974. Most of the land was tax reverted, but some was purchased and exchanged with both private individuals and the United States Forest Service. The entire western boundary of the compartment borders the United States Forest Service. The entire southern boundary borders state land. Approximately $\frac{3}{4}$ of the north and east compartment boundary borders state land. Adjacent land along the compartment boundary is owned by Plum Creek. A camp is located on the 120 acre parcel of private land that lies within the compartment boundary.

Unique Natural Features:

Under review.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

A small portion of stands in this compartment are located within the deeryard, and are classified as a Special Conservation Area.

Watershed and Fisheries Considerations:

This compartment contains Smith Creek. Smith Creek is a non-designated stream less than 50-ft wide that has a predicted mean July water temperature of 63.5°F (cold stream). A minimum 100-foot, plus 5 feet per 1% increase in slope, riparian management zone is recommended for Smith Creek to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is on the south side of an area locally known as the Mint Farm. It is dominated by marsh/ low ridge and lowland shrubs. Smith creek traverses this compartment from north to south. The first surveyors reported that tamarack, spruce, and jack pine were the most common trees in forested areas. Other species recorded included red pine, aspen, white pine, white birch, cedar, and fir. Circa 1900, a large drainage ditch (The Big Ditch) was dug to drain this area for agricultural purposes. In the western portion of the compartment these efforts resulted in a lowered water table enabling the land to support more trees. Most of the marsh and lowland shrub areas remain fairly unchanged from pre-settlement times. However, areas that may have been altered by The Big Ditch now support an aspen community. Jack pine has replaced tamarack and spruce as the dominant tree species on the ridges within the marsh. Featured species in this compartment are beaver, moose, ruffed grouse, sharp-tailed grouse, snowshoe hare, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Stonington and Big Hill formations subcrop below the glacial drift. The Stonington

and Big Hill could be used for stone/dolomite. Gravel pits are not located in this area and potential appears to be limited. There is no commercial oil and gas production in the UP. A dry hole was drilled five miles to the southeast in 2005 (Trenton Formation test).

Vehicle Access:

The Smith Creek Truck Trail travels south through the compartment, and is the main route into state land located north of Indian Lake. This forest road is used by many landowners to access their camps. Plans are underway to replace the bridge located on Smith Creek. The western portion of the compartment is accessed from a forest road that parallels the Big Ditch. Most of the roads which branch off the 2 main forest roads into the compartment were created from past timber sales. Many of these roads are overgrown and of poor quality.

Survey Needs:

None

Recreational Facilities and Opportunities:

There are no recreational facilities within this compartment. Opportunities include hunting, hiking, berry picking, and riding ORV's.

Fire Protection:

Response time to fires within this compartment will be moderate to slow. Most of the old roads located within the compartment are narrow, wet, and would not support large fire equipment. This compartment has 2 water sources, Smith Creek and the Big Ditch. During dry summer conditions fires can burn in the deep organic soils found throughout most of this compartment. In the summer of 2005 a fire located on similar soil types burned 45 acres of USFS land just west of this compartment. A small lightning strike fire occurred in 2012 here also along the side of Smith Creek Road.

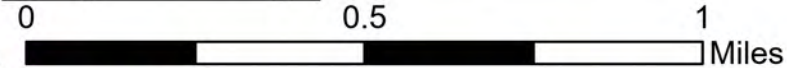
Additional Compartment Information:**The following reports from the Inventory are attached:**























- 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**

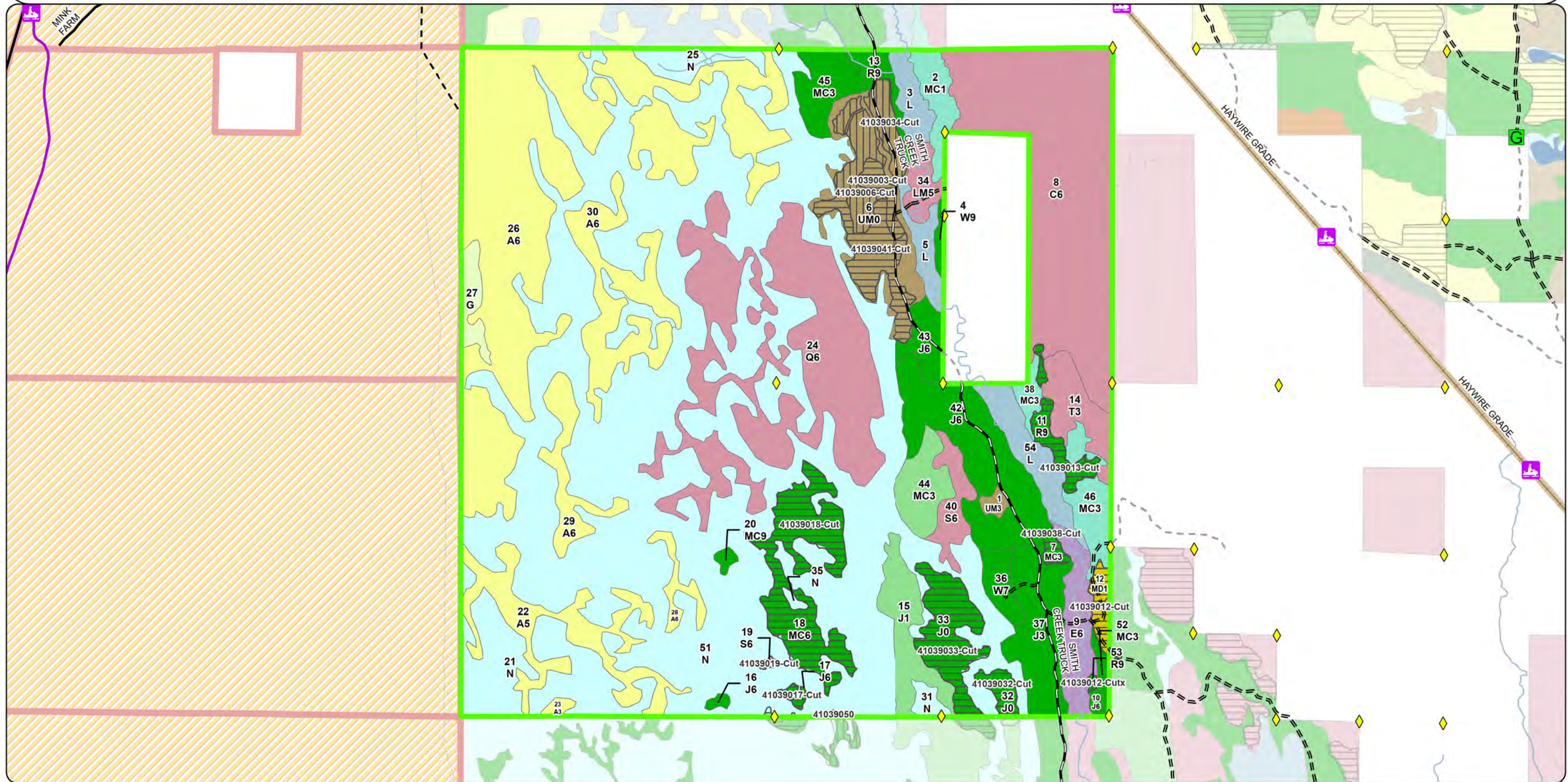
The following information is displayed, where pertinent, on the attached compartment maps:

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

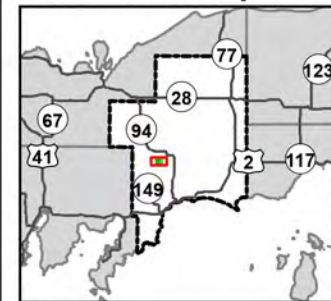
A map of the United States with a dashed rectangle highlighting a study area in the central region, specifically in the state of Texas. The highlighted area is further defined by a solid black line. Within this area, a red rectangle with a white border is located near the southern border. Surrounding the highlighted area are several numbered circles representing major highways: 67, 41, 94, 28, 77, 123, 2, 117, and 149. The map also shows the Gulf of Mexico to the south and the border with Mexico to the southwest.



- | | | | | | | | |
|---|---------------------------------------|---|--------------------------------------|---|------------------------------|---|---------------------------------|
|  | Survey Grade Corners |  | Federal / State - Dirt / Gravel Road |  | Clearcut |  | 430 - Upland Mixed Forest |
|  | Gate |  | Private - Dirt / Gravel Road |  | Shelterwood |  | 611 - Lowland Deciduous Forest |
|  | Designated ORV Routes |  | Intermittent Stream |  | 413 - Aspen |  | 612 - Lowland Coniferous Forest |
|  | Designated Snowmobile Trails |  | Perennial River |  | 419 - Mixed Upland Deciduous |  | 613 - Lowland Mixed Forest |
|  | DNR - Primary Forest Road |  | Lakes and Rivers |  | 421 - Planted Pines |  | 310 - Herbaceous Openland |
|  | DNR - Forest Access Route |  | Counties |  | 422 - Natural Pines |  | 622 - Lowland Shrub |
|  | Federal / State / County - Paved Road |  | Compartment Boundary |  | 429 - Mixed Upland Conifers |  | 623 - Emergent Wetland |



Cover Type & Treatments Map



Compartment: 41039
T43N, R16W, Sec: 19, 20, 29, 30
County: Schoolcraft
Unit: Shingleton
Mgmt. Area: Seney Lake Plain
YOE: 2027
Acres: 2,390 GIS Calculated
Examiner: Adam Petrelus
Date Exported: 07/30/2025
Map Phase: Web Post



0 0.5 1 Miles

Survey Grade Corners

Berms

Designated ORV Routes

DNR - Primary Forest Road

DNR - Forest Access Route

Federal / State / County - Paved Road

Federal / State - Dirt / Gravel Road

Private - Dirt / Gravel Road

Intermittent Stream

Perennial River

Lakes and Rivers

Counties

Compartment Boundary

Clearcut

Shelterwood

413 - Aspen

419 - Mixed Upland Deciduous

421 - Planted Pines

422 - Natural Pines

429 - Mixed Upland Conifers

430 - Upland Mixed Forest

611 - Lowland Deciduous Forest

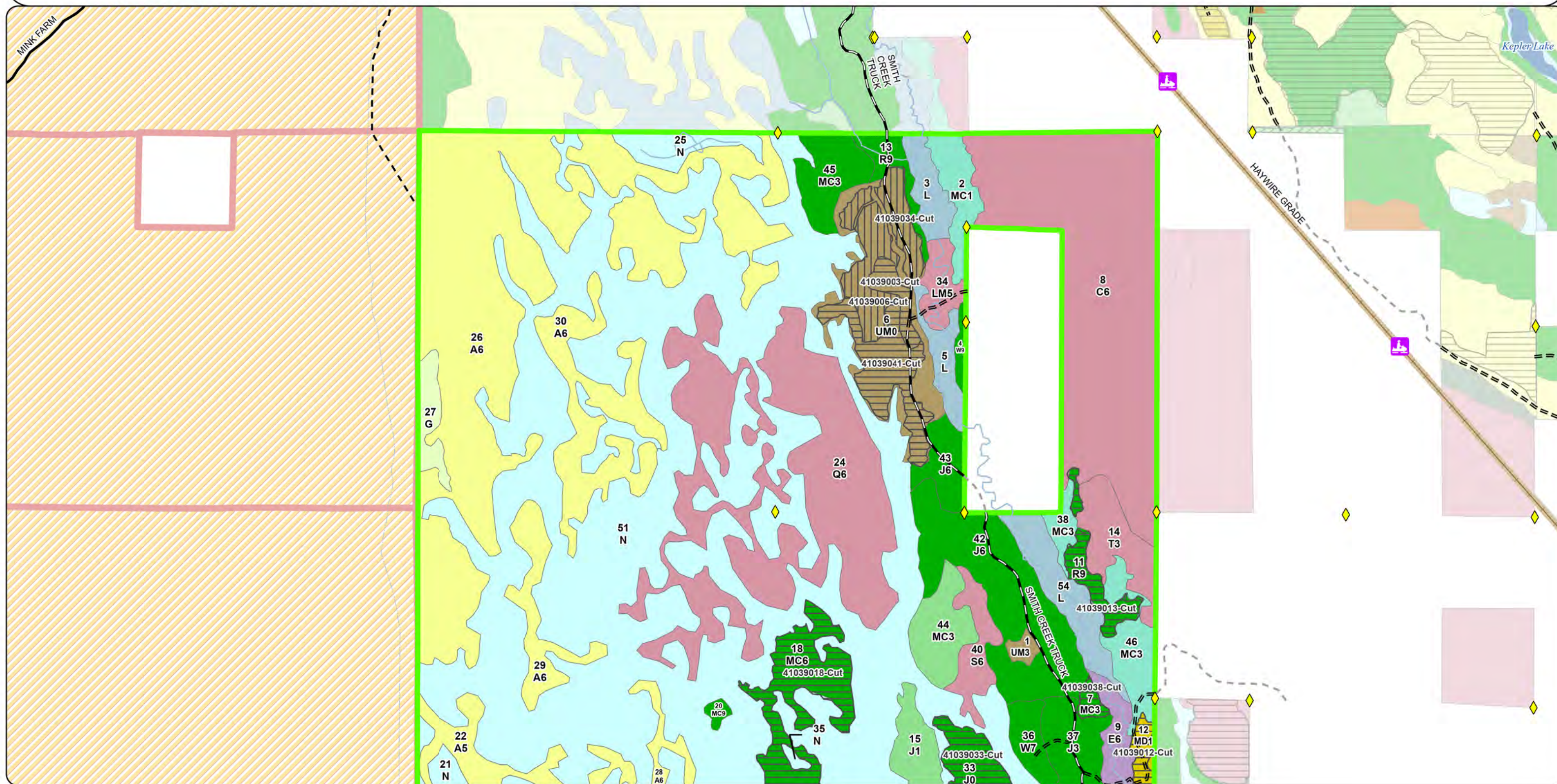
612 - Lowland Coniferous Forest

613 - Lowland Mixed Forest

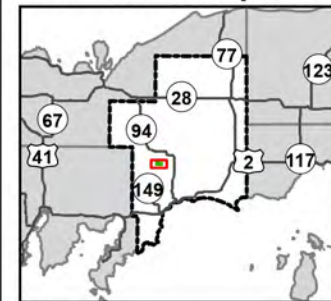
310 - Herbaceous Openland

622 - Lowland Shrub

623 - Emergent Wetland



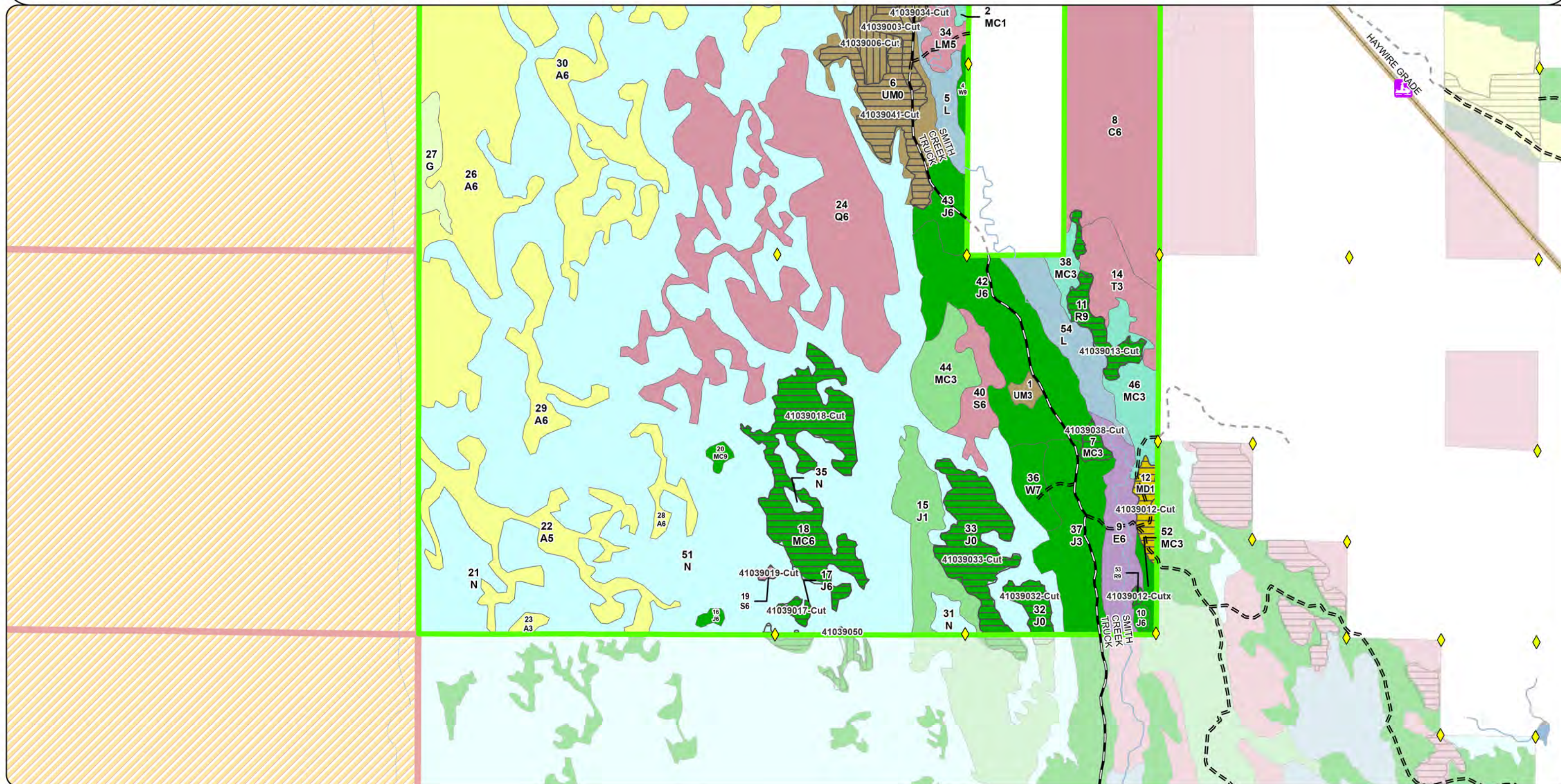
Cover Type & Treatments Map



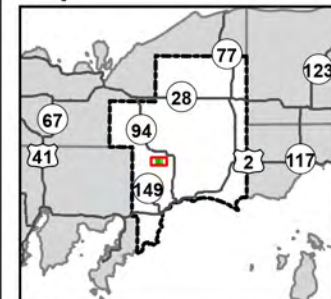
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- | | | | |
|------------------------------------|------------------------|------------------------------|---------------------------------|
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Stand Boundary Map

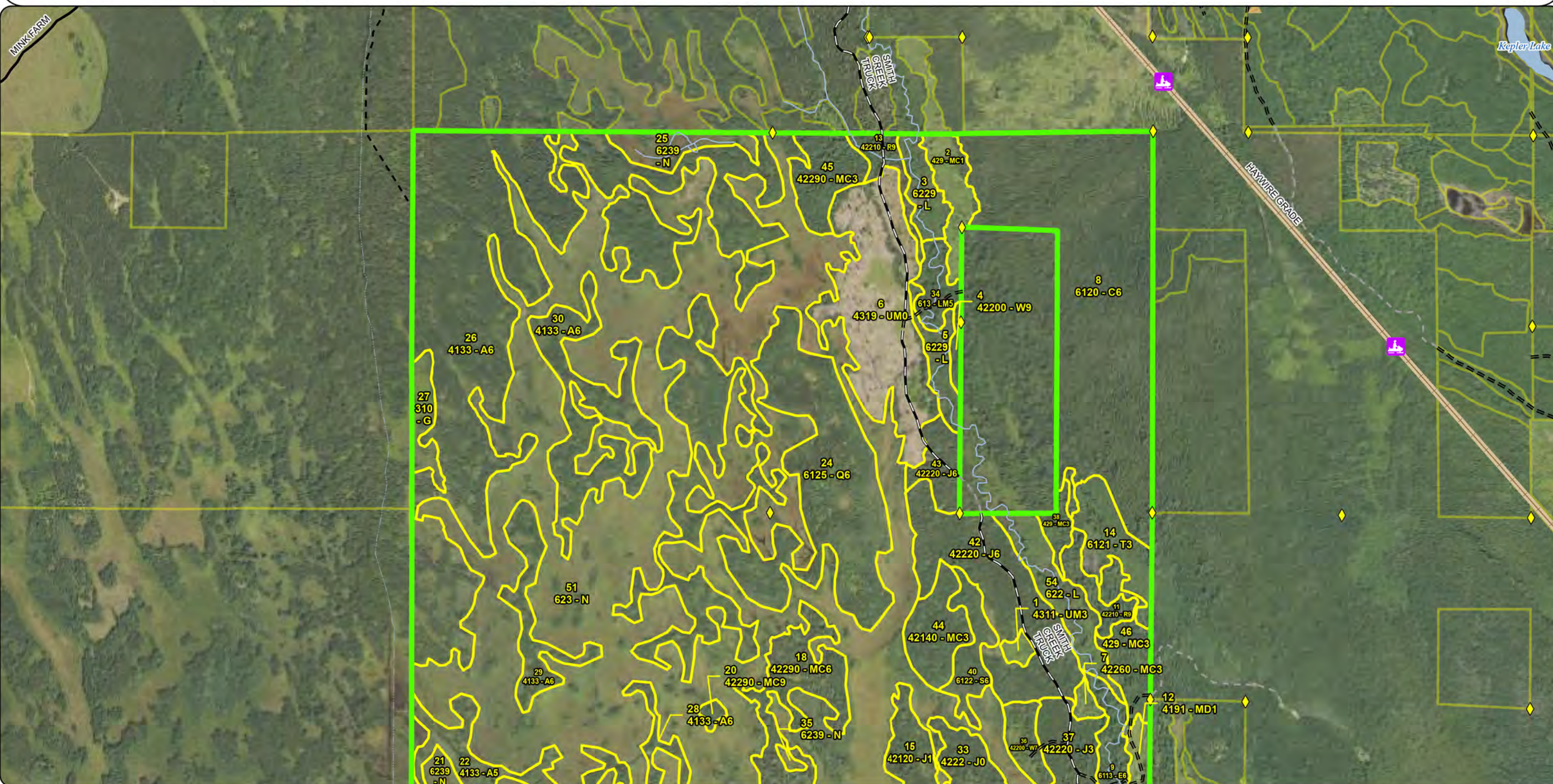


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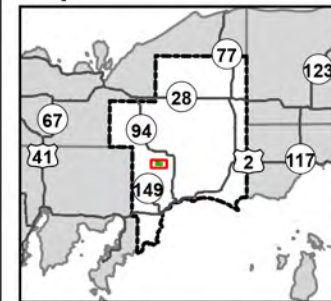
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Stand Boundary Map

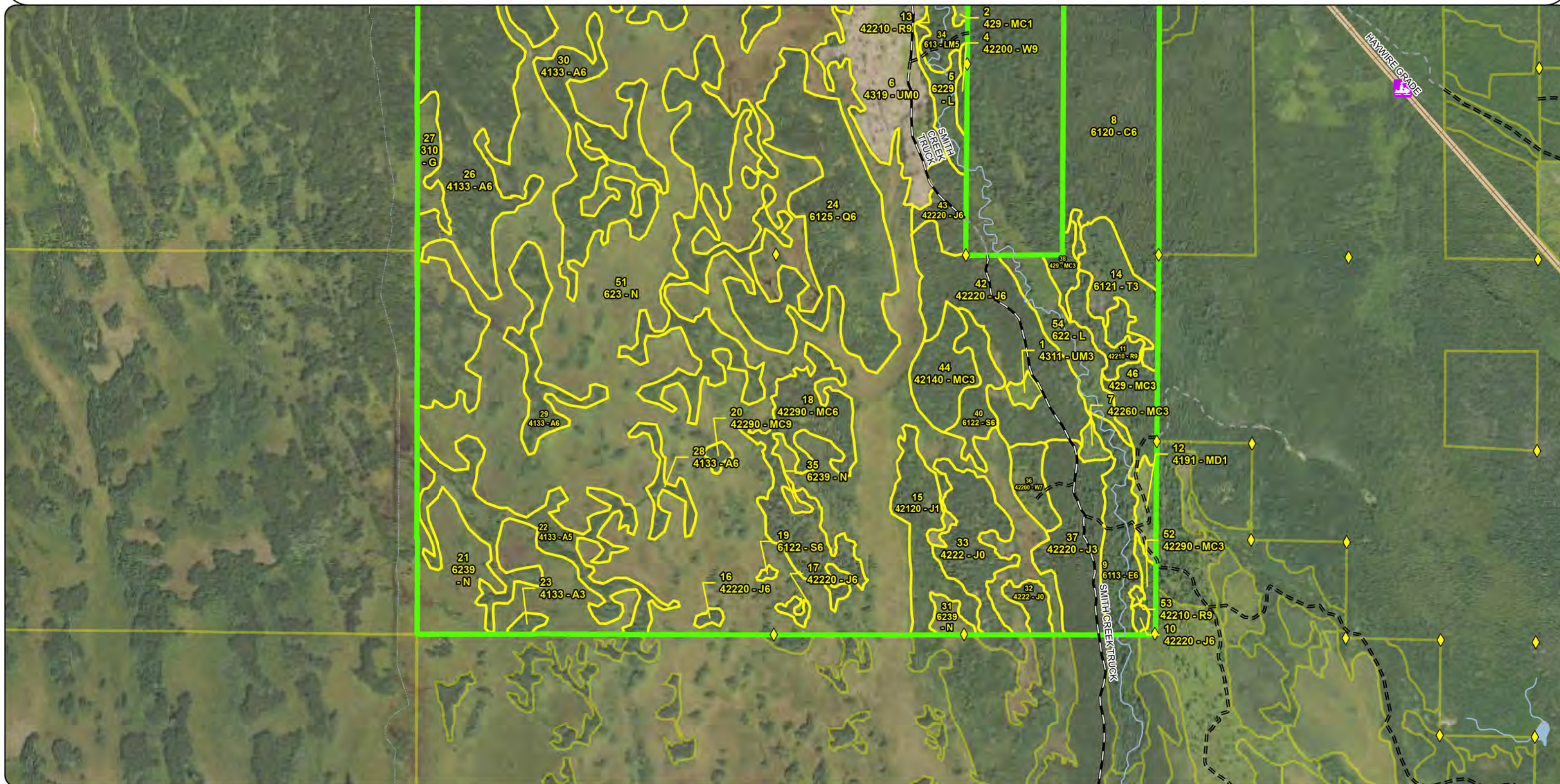


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0 0.5 1 Miles



Special Conservation Areas & Site Conditions Map



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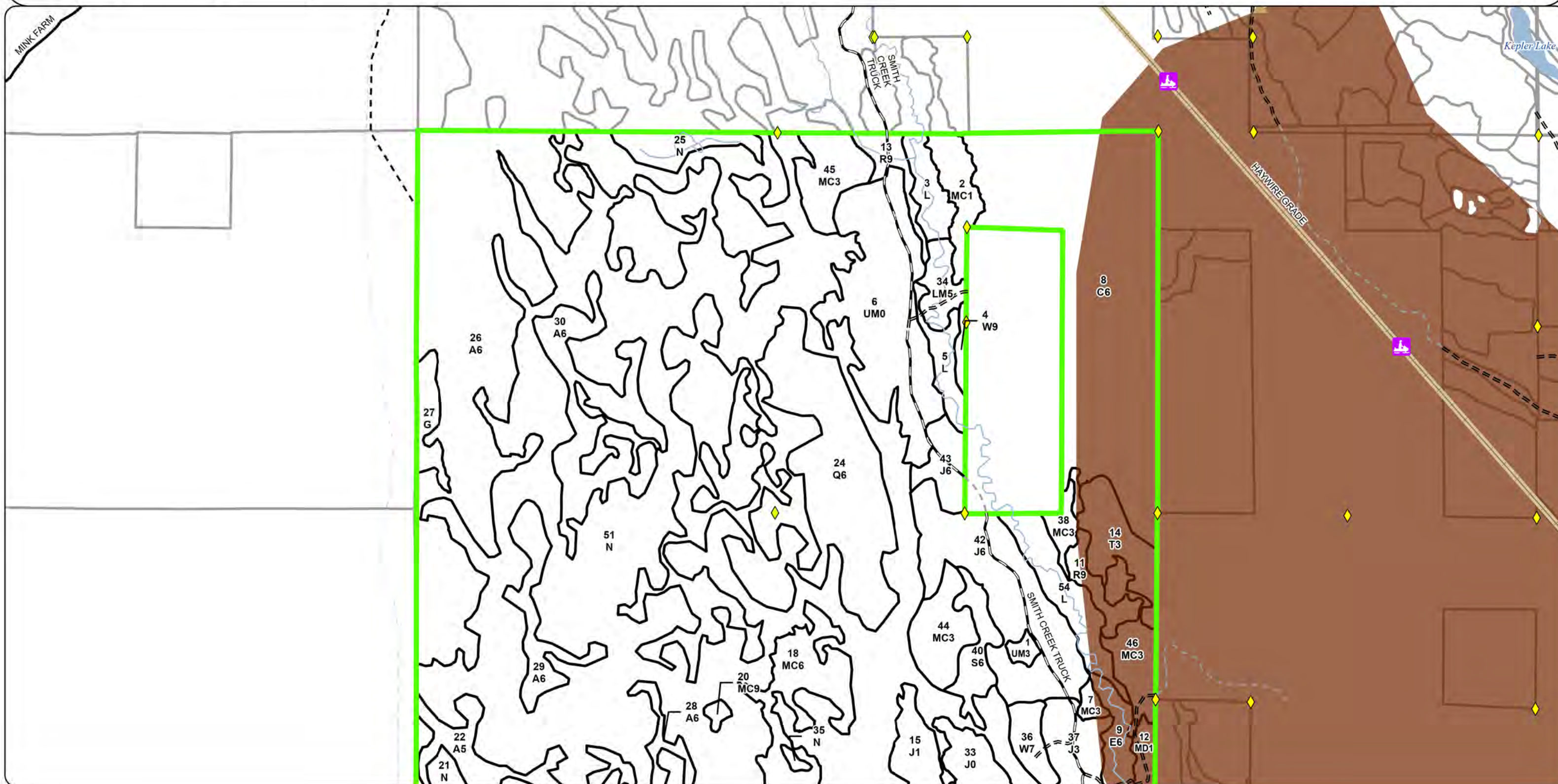


0 0.5 1 Miles

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- Lakes and Rivers
- Counties
- Compartment Boundary
- Stand Boundaries
- Deer Winter Range



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Survey Grade Corners

Designated ORV Routes

DNR - Primary Forest Road

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Intermittent Stream

Perennial River

Lakes and Rivers

Counties

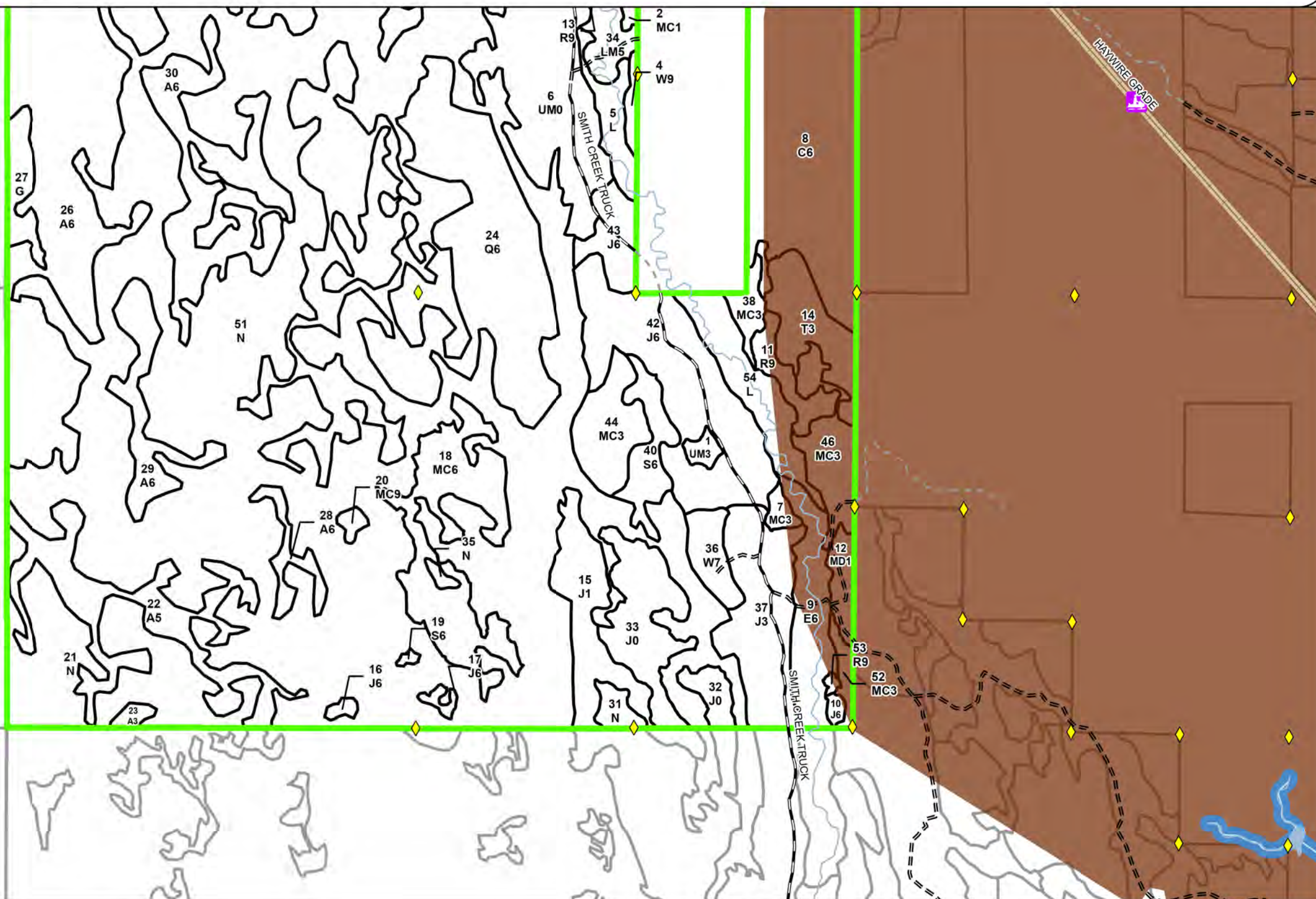
Compartment Boundary

Stand Boundaries

Cold Water Streams

High Priority Trout Stream Buffer

Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class

Adam Petrelius: Examiner



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	436	0	0	0	0	0	0	0	0	0	0	0	0	0	436
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	196	0	0	0	0	196
Herbaceous Openland	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Jack Pine	39	0	0	76	74	0	15	0	0	0	4	0	0	0	0	0	0	0	207
Lowland Conifers	0	0	0	0	187	0	0	0	0	0	0	0	0	0	0	0	0	0	187
Lowland Deciduous	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	28
Lowland Mixed Forest	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	12
Lowland Shrub	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	17
Marsh	925	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	925
Mixed Upland Deciduous	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Natural Mixed Pines	0	0	3	5	22	0	0	0	0	0	57	0	0	0	0	0	0	0	87
Planted Mixed Pines	0	0	0	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Red Pine	0	0	0	0	0	0	0	0	0	12	11	0	1	0	0	0	0	0	23
Tamarack	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Upland Conifers	0	17	0	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Upland Mixed Forest	87	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	90
White Pine	0	0	0	0	0	0	0	0	0	0	12	0	4	0	0	0	0	0	16
Total	1116	28	3	157	719	0	15	12	0	40	101	0	5	196	0	0	0	0	2389



Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2027

Acres of Harvest

Compartment 39

Total Compartment Acres: 2,390

Commercial Harvest - 674

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	42	0	0	0	0	0	0	0	0	42
Lowland Spruce/Fir	1	0	0	0	0	0	0	0	0	1
Marsh	0	0	0	0	0	0	0	0	0	0
Mixed Upland Deciduous	8	0	0	0	1	0	0	0	0	9
Natural Mixed Pines	58	0	0	0	0	0	0	0	0	58
Red Pine	12	0	0	0	0	0	0	0	0	12
Upland Mixed Forest	35	0	0	0	31	0	0	0	0	67
Total	156	0	0	0	33	0	0	0	0	189

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	189	0	0	0	0	0	0	0	0	189
Next Step	0	183	95	0	0	51	154	0	0	483
Total	189	183	95	0	0	51	154	0	0	672



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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Approved Treatments:

6	41039003-Cut	7.5	4319 - Mixed Upland Forest	0	2	1-50	Harvest	Clearcut	4212 - Planted Jack Pine	Planting Record	No
<u>Prescription</u> Cut all trees except hemlock and oak. use 2 inch spec. <u>Specs:</u> <u>Next Step</u> Planting, Initial Plant; SitePrep, Trenching; Planting, Initial Plant <u>Treatments:</u> <u>Acceptable</u> jack pine, red pine, white pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											
6	41039006-Cut	23.1	4319 - Mixed Upland Forest	0	2	1-50	Harvest	Shelterwood	4221 - Natural Red Pine	Planting Record	No
<u>Prescription</u> Leave 30 sq. ft. of seed trees. Buffer creek 100 feet. Less than 3% retention is acceptable. VBAR cruise may be needed. A drainage exists and should be delineated on ground. Save some cedar in this drainage as retention. <u>Specs:</u> WLD Comment: "This harvest will <u>Next Step</u> SitePrep, Trenching; Pesticide, (Inactive)Aerial; Planting, Initial Plant; Monitoring, Artificial Regen <u>Treatments:</u> <u>Acceptable</u> any species onsite. Site is purchased land by wildlife division and discussion at review was to accept all species as regeneration. <u>Regen:</u> <u>Other</u> Stand could be cut in summer to avoid impacts to trail, however many other jobs currently exist which are winter work along this road system. <u>Comment:</u> Evaluate at time of sale and minimize impacts to trail. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											
12	41039012-Cut	7.8	4191 - Mixed Upland Deciduous with Conifer	1	7	1-50	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Cut all trees, live and dead, greater than 2 inches in diameter. Possible aerial herbicide operations in future. Buffer creek 100 feet. Less than 3% retention is acceptable. Survey work will be needed if corner is not present. Minimize impacts to snowmob <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Pesticide, (Inactive)Aerial; Planting, Initial Plant; Monitoring, Artificial Regen <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											



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
12	41039012-Cutx	0.8	4191 - Mixed Upland Deciduous with Conifer	1	7	1-50	Harvest	Shelterwood	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Mark red pine and white pine to 50 sq. ft. Cut all other trees. Buffer creek 50 feet. Minimize impacts to snowmobile trail. VBAR cruising will be needed. <u>Specs:</u> <u>Next Step</u> Planting, Initial Plant; Monitoring, Artificial Regen <u>Treatments:</u> <u>Acceptable</u> mixed deciduous and conifer trees. Due to stands small size, it will be difficult to keep it in red pine. accept any regeneration but still plant <u>Regen:</u> stand with red pine at time of others. <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											
11	41039013-Cut	12.0	42210 - Natural Red Pine	9	81	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Cut all trees, live and dead, greater than 2 inches in diameter. Possible aerial herbicide operations in future. Buffer creek 100 feet. Less than <u>Specs:</u> 3% retention is acceptable. Survey work will be needed if corner is not present. Minimize impacts to snowmob <u>Next Step</u> SitePrep, Trenching; Pesticide, (Inactive)Aerial; Planting, Initial Plant; Monitoring, Artificial Regen <u>Treatments:</u> <u>Acceptable</u> red pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											
17	41039017-Cut	2.5	42220 - Natural Jack Pine	6	93	81-110	Harvest	Clearcut	4222 - Natural Jack Pine	Planting Record	No
<u>Prescription</u> Cut all trees except hemlock and oak. Leave some good quality red pine and white pine seed trees where available and located on high <u>Specs:</u> ground. Retention may be excluded along the marsh edge. Less than 3% retention is acceptable. <u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate) <u>Treatments:</u> <u>Acceptable</u> mixed deciduous and conifer trees. Since stand is remote and access will be difficult we are willing to accept any species as regeneration. <u>Regen:</u> adjacent stands regenerated well to jack pine and I suspect the same here. <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											
18	41039018-Cut	55.0	42290 - Natural Mixed Pine	6	93	51-80	Harvest	Clearcut	429 - Mixed Upland Conifers	Planting Record	No
<u>Prescription</u> Cut all trees except hemlock and oak. Leave some good quality red pine and white pine seed trees where available and located on high <u>Specs:</u> ground. <u>Next Step</u> SitePrep, Scarification <u>Treatments:</u> <u>Acceptable</u> mixed deciduous and conifer trees. Since stand is remote and access will be difficult we are willing to accept any species as regeneration. <u>Regen:</u> adjacent stands regenerated well to jack pine and I suspect the same here. <u>Other</u> WLD - Retention can be placed along the marsh edge. <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											



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
19	41039019-Cut	0.8	6122 - Black Spruce	6	93	81-110	Harvest	Clearcut	6122 - Black Spruce	Planting Record	No
<u>Prescription</u> Cut all trees except hemlock and oak. Less than 3% retention is acceptable and can be placed along the marsh edge. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> mixed deciduous and conifer trees. Since stand is remote and access will be difficult we are willing to accept any species as regeneration. <u>Regen:</u> adjacent stands regenerated well to jack pine and I suspect the same here. <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											
32	41039032-Cut	7.0	4222 - Natural Jack Pine	0	2	1-50	Harvest	Clearcut	429 - Mixed Upland Conifers	Planting Record	No
<u>Prescription</u> Cut all trees except hemlock and oak. Leave some good quality red pine and white pine seed trees where available and located on high ground. Retention may be excluded along the marsh edge. Attempt to build road from south during timbersale on high ground <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Scarification <u>Treatments:</u> <u>Acceptable</u> jack pine, red pine, white pine, black spruce in uplands. mixed conifer and deciduous in lowlands. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											
33	41039033-Cut	32.6	4222 - Natural Jack Pine	0	2		Harvest	Clearcut	429 - Mixed Upland Conifers	Planting Record	No
<u>Prescription</u> Cut all trees except hemlock and oak. Leave some good quality red pine and white pine seed trees where available and located on high ground. Retention may be excluded along the marsh edge. Attempt to build road from south during timbersale on high ground <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Scarification <u>Treatments:</u> <u>Acceptable</u> jack pine, red pine, white pine, black spruce in uplands, mixed conifer and deciduous in lowlands. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											
6	41039034-Cut	8.3	4319 - Mixed Upland Forest	0	2	1-50	Harvest	Shelterwood	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Leave 30 sq. ft.. Less than 3% retention is acceptable. VBAR cruise may be needed. <u>Specs:</u> <u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Pesticide, (Inactive)Aerial; Monitoring, Artificial Regen <u>Treatments:</u> <u>Acceptable</u> any species. stand is on purchased land and discussion at review was to let it come back naturally to any species combination <u>Regen:</u> <u>Other</u> Stand could be cut in summer to avoid impacts to trail, however many other jobs currently exist which are winter work along this road system. <u>Comment:</u> Evaluate at time of sale and minimize impacts to trail. Stand has had previous attempts at natural red pine regen <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											



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
7	41039038-Cut	3.4	42260 - Natural Pine, Mixed Deciduous	3	10	1-50	Harvest	Clearcut	429 - Mixed Upland Conifers	Cutting Record	No
<u>Prescription</u> Remove overstory and leave some pine around the edges of stand. No other retention needed. Protect regeneration. Stand will probably <u>Specs:</u> need VBAR cruising. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mixed coniferous and deciduous trees <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											
6	41039041-Cut	27.6	4319 - Mixed Upland Forest	0	2	1-50	Harvest	Clearcut	429 - Mixed Upland Conifers	Planting Record	No
<u>Prescription</u> Cut all trees except hemlock, oak, and cedar. Leave good quality red pine and white pine seed trees on firm ground where applicable. Buffer <u>Specs:</u> creek 100 feet, this will be retention. WLD Comment: "This harvest will regenerate young conifer with low lying <u>Next Step</u> SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen; Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> mixed deciduous and conifer trees <u>Regen:</u> <u>Other</u> Stand could be cut in summer to avoid impacts to trail, however many other jobs currently exist which are winter work along this road system. <u>Comment:</u> Evaluate at time of sale and minimize impacts to trail. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2016											
51	41039050	0.3	623 - Emergent Wetland	99			Harvest	Shelterwood	613 - Lowland Mixed Forest	Cutting Record	No
<u>Prescription</u> Cut all trees except hemlock and oak. Leave some good quality red pine and white pine seed trees where available and located on high <u>Specs:</u> ground. Retention may be excluded along the marsh edge. Less than 3% retention is acceptable. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> mixed deciduous and conifer trees. Since stand is remote and access will be difficult we are willing to accept any species as regeneration. <u>Regen:</u> adjacent stands regenerated well to jack pine and I suspect the same here. <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 08/23/2017											

Total Treatment 188.7
Acreage Proposed:

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius: Examiner

Compartment: 39
Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	Acres Available <i>With Condition</i>	Acres Not Available	Dominant Site Conditions			
				2H	3H	3J	5E
436	436	0	0	Aspen			
196	0	0	196	Cedar	196		
12	12	0	0	Herbaceous Openland			
194	191	0	3	Jack Pine	2	1	
187	187	0	0	Lowland Conifers			
28	0	0	28	Lowland Deciduous		28	
12	12	0	0	Lowland Mixed Forest			
52	53	0	0	Lowland Shrub			
17	17	0	0	Lowland Spruce/Fir			
925	925	0	0	Marsh			
8	8	0	0	Mixed Upland Deciduous			
87	85	0	2	Natural Mixed Pines	2		
23	23	0	0	Planted Mixed Pines			
24	13	0	11	Red Pine		11	
25	25	0	0	Tamarack			
45	45	0	0	Upland Conifers			
9	3	0	6	Upland Mixed Forest			6
15	12	0	4	White Pine		4	
2,295	2,046		249	Total Forested Acres	4	196	43
	89%		11%	Relative Percent			6

**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	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	196	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
Adam Petrelius: Examiner

Compartment: 39
Year of Entry: 2027

2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	3	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
Comments				



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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
7	42260 - Natural Pine, Mixed Deciduous	Sapling Well	3.3	10	1-50	N/A	Harvested in winter 2004. Overstorywas removed																																				
<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>30</td><td>Log</td><td>2</td><td></td></tr><tr><td>Black Spruce</td><td>10</td><td>Log</td><td>2</td><td></td></tr><tr><td>White Pine</td><td>50</td><td>Log</td><td>2</td><td>10</td></tr><tr><td>Jack Pine</td><td>10</td><td>Log</td><td>2</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	30	Log	2		Black Spruce	10	Log	2		White Pine	50	Log	2	10	Jack Pine	10	Log	2												
Canopy Species	% Cover	Size Class	DBH	Age																																							
Quaking Aspen	30	Log	2																																								
Black Spruce	10	Log	2																																								
White Pine	50	Log	2	10																																							
Jack Pine	10	Log	2																																								
8	6120 - Lowland Cedar	Poletimber Well	195.7	129	111-140	N/A																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Tamarack</td><td>10</td><td>Seedling</td><td>8</td><td></td><td>Alder</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black Spruce</td><td>10</td><td>Seedling</td><td>8</td><td></td><td>Black Spruce</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Northern White Cedar</td><td>80</td><td>Seedling</td><td>8</td><td>129</td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Tamarack	10	Seedling	8		Alder	Low	5 - 10 feet	5 - 10 feet	Black Spruce	10	Seedling	8		Black Spruce	Medium	5 - 10 feet	5 - 10 feet	Northern White Cedar	80	Seedling	8	129				
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																			
Tamarack	10	Seedling	8		Alder	Low	5 - 10 feet	5 - 10 feet																																			
Black Spruce	10	Seedling	8		Black Spruce	Medium	5 - 10 feet	5 - 10 feet																																			
Northern White Cedar	80	Seedling	8	129																																							
9	6113 - Lowland Maple	Poletimber Well	28.4	80	81-110	N/A																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>10</td><td></td><td>16</td><td></td><td>Black Spruce</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Red Maple</td><td>80</td><td>Seedling</td><td>8</td><td>80</td><td>Alder</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Black Spruce</td><td>10</td><td>Seedling</td><td>6</td><td></td><td></td><td></td><td></td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	10		16		Black Spruce	Medium	5 - 10 feet	5 - 10 feet	Red Maple	80	Seedling	8	80	Alder	Medium	5 - 10 feet	5 - 10 feet	Black Spruce	10	Seedling	6					
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																			
White Pine	10		16		Black Spruce	Medium	5 - 10 feet	5 - 10 feet																																			
Red Maple	80	Seedling	8	80	Alder	Medium	5 - 10 feet	5 - 10 feet																																			
Black Spruce	10	Seedling	6																																								
10	42220 - Natural Jack Pine	Poletimber Well	1.7	34	Immature	N/A																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Jack Pine</td><td>100</td><td>Sapling</td><td>5</td><td>34</td><td>Black Spruce</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	100	Sapling	5	34	Black Spruce	Low	5 - 10 feet	5 - 10 feet																		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size																																			
Jack Pine	100	Sapling	5	34	Black Spruce	Low	5 - 10 feet	5 - 10 feet																																			
11	42210 - Natural Red Pine	Sawtimber Well	12.3	81	81-110	N/A																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>75</td><td></td><td>16</td><td>81</td></tr><tr><td>White Pine</td><td>25</td><td></td><td>16</td><td>81</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	75		16	81	White Pine	25		16	81																					
Canopy Species	% Cover	Size Class	DBH	Age																																							
Red Pine	75		16	81																																							
White Pine	25		16	81																																							
12	4191 - Mixed Upland Deciduous with Conifer	Sapling Poor	8.3	7	1-50	N/A	This stand was looked at during spring 2023 for possible trenching as objective is planted red pine. In a conversation between Adam and Bob, it was decided to wait till re-inventory and make the actual decision. At this time for various reasons, we both feel it would be best to allow this red pine stand to convert to mixed species. Current stocking levels support that along with stand size, location, and current site conditions.																																				
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>50</td><td>Log</td><td>1</td><td>7</td></tr><tr><td>White Pine</td><td>10</td><td>Log</td><td>1</td><td></td></tr><tr><td>Jack Pine</td><td>10</td><td>Log</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>10</td><td>Log</td><td>1</td><td></td></tr><tr><td>Black Spruce</td><td>10</td><td>Log</td><td>1</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	50	Log	1	7	White Pine	10	Log	1		Jack Pine	10	Log	1		Red Pine	10	Log	1		Black Spruce	10	Log	1							
Canopy Species	% Cover	Size Class	DBH	Age																																							
Red Maple	50	Log	1	7																																							
White Pine	10	Log	1																																								
Jack Pine	10	Log	1																																								
Red Pine	10	Log	1																																								
Black Spruce	10	Log	1																																								





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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
43	42220 - Natural Jack Pine	Poletimber Well	14.5	53	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine		90	Seedling	9	53	Red Maple	Low	5 - 10 feet	5 - 10 feet
Red Pine		10		10		Black Spruce	Low	5 - 10 feet	5 - 10 feet
44	42140 - Planted Mixed Pine	Sapling Well	22.6	26	Immature	N/A	2002 regen counts showed 369 red pine and 104 jack pine		
Canopy Species		% Cover	Size Class	DBH	Age				
White Pine		5	Log	3					
Jack Pine		30	Log	4					
Black Spruce		5	Log	3					
Red Pine		50	Log	4	26				
Tamarack		5	Log	3					
Quaking Aspen		5	Log	4					
45	42290 - Natural Mixed Pine	Sapling Well	22.3	35	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		20	Pole	4		Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Red Pine		20	Sapling	5					
Black Spruce		20	Pole	4					
White Pine		10	Sapling	5					
Jack Pine		30	Sapling	5	35				
46	429 - Mixed Upland Conifers	Sapling Well	21.4	22	1-50	N/A	7 acres of this stand were trenched and seeded in summer 2002. Regen count in 2005 was 180 jack pine, 170 red pine, 230 white pine, 230 black spruce, 510 fir, and 400 red maple. Overall stand is diverse and many mixed species.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log	4		Alder	Low	5 - 10 feet	5 - 10 feet
Red Pine		15	Log	4					
Black Spruce		15	Log	4					
Balsam Fir		10	Log	4					
White Pine		15	Log	4					
Jack Pine		20	Log	4	22				
Quaking Aspen		15	Log	4					
51	623 - Emergent Wetland	None	829.1			No			
52	42290 - Natural Mixed Pine	Sapling Well	4.8	24	Immature	N/A			
Canopy Species		% Cover	Size Class	DBH	Age				
Quaking Aspen		10	Log	2					
Black Spruce		10	Log	2					
Red Pine		20	Log	2					
White Pine		20	Log	2					
Jack Pine		40	Log	2	24				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
53	42210 - Natural Red Pine	Sawtimber Well	0.8	110	81-110	N/A																																												
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Red Pine	Low	5 - 10 feet	5 - 10 feet																																															
Black Spruce	Medium	5 - 10 feet	5 - 10 feet																																															
54	622 - Lowland Shrub	None	26.0			No																																												