Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45017
Entry Year 2027
Acreage: 2,856
County: Chippewa
Management Area: Drummond Island

Stand Examiner: Louis Radecki

Legal Description:

T42N R7E, Sec 28, 29, 30, 31, 32

Identified Planning Goals:

To develop an optimal age class distribution of aspen stands for sustainable forestry and wildlife values. To rotate hardwood treatments for optimum regeneration and stocking of all age classes and enhance wildlife habitat. Maintain current openings as needed for diversity and enhancement of wildlife benefits. To provide reasonable public access for multiple use benefits such as hunting, trail riding, camping, and hiking, while protecting the natural resources.

Soil and topography:

Potagannissing-Rock outcrop-Summerville: Exposed limestone bedrock and shallow, level to steep, poorly drained and well drained, loamy soils on ground moraines and glacial lake benches in the north part of the compartment. Shelter-Posen-Summerville: similar to above but a deeper soil in the south part of the compartment. Markey-Dawson: deep, level, poorly drained mucky and peaty soils on outwash plains on the east side to Fourth Lake. Topography is rolling hills to flat rock to steep cliffs. Cedar swamps and hardwood knobs are mixed among the aspen hills.

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

Contiguous block of State land with no developments. Primarily used for hunting, trail riding, and timber and wildlife management. There is one private parcel adjoining the compartment on the west side with a camp. State land surrounding the compartment maintains landscape level management.

Unique Natural Features:

There is a potential for rare threatened or endangered plant and animal species within the compartment. Stands to be managed will be checked for species of concern. Management will be modified per management guidelines for that species if species are found within those stands or would be affected by treatment of the stands.

Archeological, Historical, and Cultural Features:

Remnants of old railroad grade along with old homestead sites can be found in this compartment.

Special Management Designations or Considerations:

Compartment contains areas within Deer Designated Habitat Area.

Watershed and Fisheries Considerations:

This compartment, located on Drummond Island, contains portions of Dry Lake and Fourth Lake. Dry Lake is approximately 165 acres in size with a maximum depth of 8 feet, and supports primarily yellow perch. Fourth Lake is part of the Potagannissing Flooding, has an average depth of 2 feet, and is primarily a northern pike spawning area. Prescribed management activities are appropriate for the protection of these waterbodies. If possible, a landing/parking area should be left adjacent to Dry Lake to provide for access to this waterbody.

Wildlife Habitat Considerations:

This compartment is located on Drummond Island. Featured wildlife species in the management area include blackburnian warbler, American marten, ruffed grouse, sharp-tailed grouse snowshoe hare, and white-tailed deer. Aspen, cedar, and northern hardwoods are dominant stand types in the compartment. Much of the aspen was treated during a previous entry to provide age and structural diversity while also maintaining the aspen type. Some of the mature stands that remain will be treated to maintain early successional habitat and provide favorable habitat for a suite of wildlife including deer, black bear, snowshoe hare, and ruffed grouse. A number of northern hardwoods were treated during the last entry with a focus on diseased beech. Most northern hardwoods stand will be left and allowed to continue to mature. Some will be treated with a focus on maintaining diversity including retaining oak and any healthy beech. Conifer stands will generally be left to maintain cover and other habitat for wildlife. Oak or disease resistant beech plantings were considered where beech was harvested during the last entry, but did not occur after the harvests that did take place due to access and site constraints (ex. rocky ground).

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production on Drummond Island, and there are no known economic deposits of metallic or critical minerals in this area. The closest known sand/gravel pit is the State-owned Johnswood Road Pit, just over two miles southwest. The pit has not been leased or permitted for commercial production since at least 2002 and has not been recently evaluated for quantity and quality of reserves. There may be some potential for minor amounts of sand & gravel within the compartment on the uplands (away from wetlands) and where there is sufficient thickness of glacial drift over the bedrock. Due to logistics and availability, sand & gravel on the island is more valuable compared to on the mainland. Bedrock is at or very near the surface across the island. High-purity dolomite is quarried from the Engadine Group on the west end of the island, more than seven miles from the compartment. The existing quarry (and its immediately adjacent lands) contains decades worth of dolomite reserves. While there may be potential for additional high-purity dolomite within the compartment, it is unlikely that a new quarry would be developed here. The State does not own much of the mineral rights within the compartment but may own the rights to the bedrock dolostone. Because the mineral estate is the dominant estate, the surface owner must provide the owner of the mineral rights reasonable access to the surface for mineral exploration and development.

Vehicle Access:

Logging roads, jeep trails, and ORV Trails are throughout the compartment. Most can be accessed with two wheel drive vehicles; others are strictly passable with four wheel drive. The primary access to this compartment is the Second Lake Road.

Survey Needs:

There are no survey needs at this time.

Recreational Facilities and Opportunities:

ORV and jeep trails are throughout the compartment. No facilities. Hunting is one of the main sporting opportunities along with camping, hiking, and sight seeing.

Fire Protection:

There is good to fair vehicle access to most of the compartment. Accessible water sources are scarce.

Additional Compartment Information:

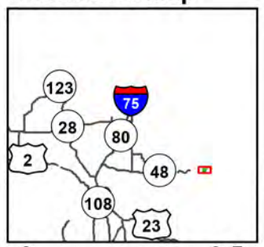
The following reports from the Inventory are attached:

- **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



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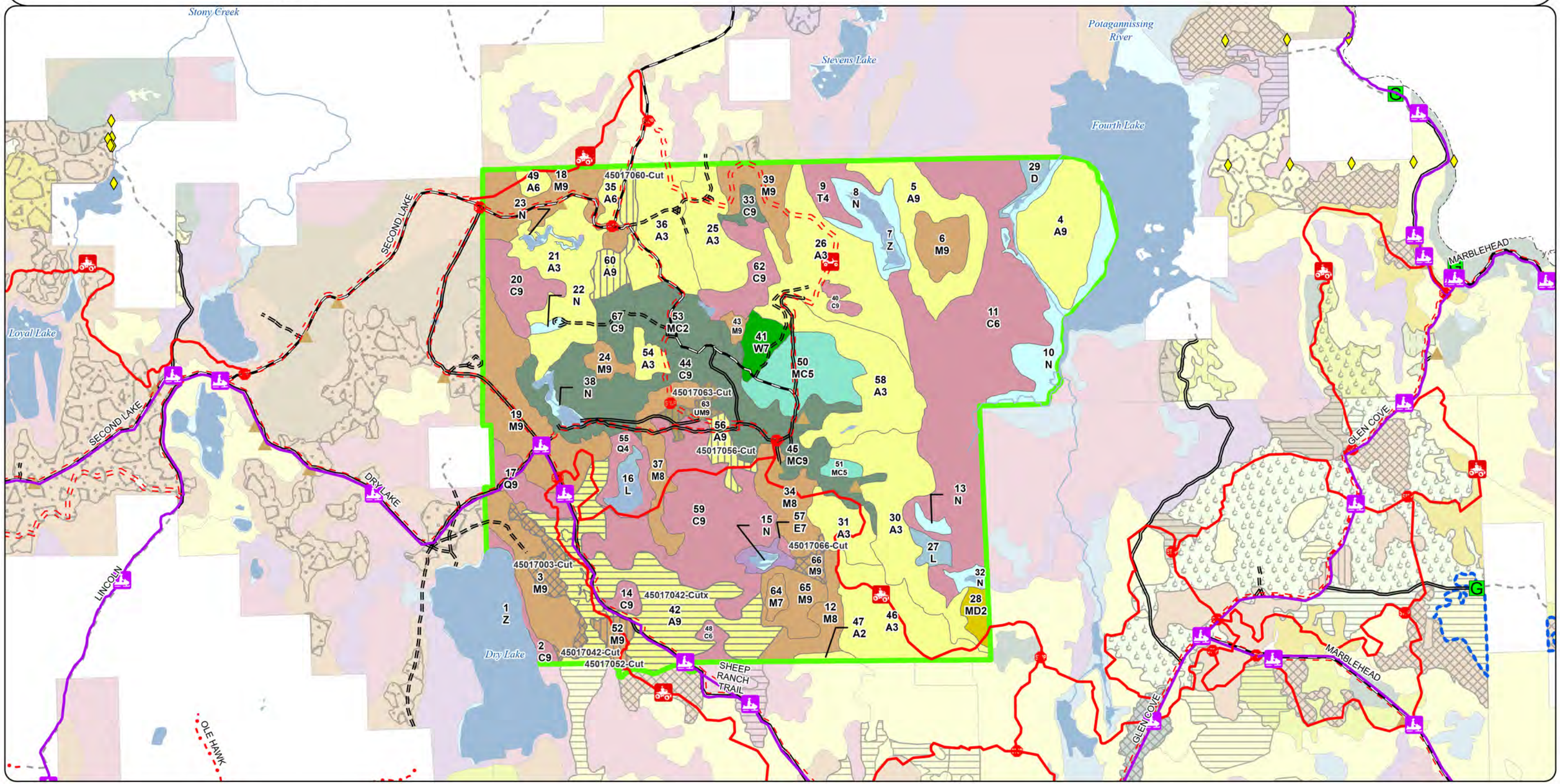
T42N, R07E, Sec: 28 - 32
County: Chippewa
Unit: Sault Ste. Marie
Mgmt. Area: Drummond Island
YOE: 2027
Acres: 2,856 GIS Calculated
Examiner: Louis Radecki
Date Exported: 07/18/2025
Map Phase: Web Post

N

0 0.5 1 Miles

- Survey Grade Corners
- Berms
- Gate
- Sign
- Designated ORV Routes
- Designated Snowmobile Trails
- Designated ATV Trails
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Clearcut
- Selection
- Shelterwood
- Treatments with Site Conditions
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Decidous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub
- 623 - Emergent Wetland



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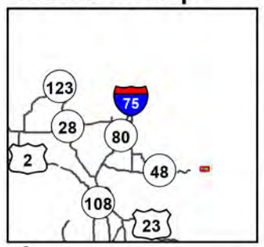

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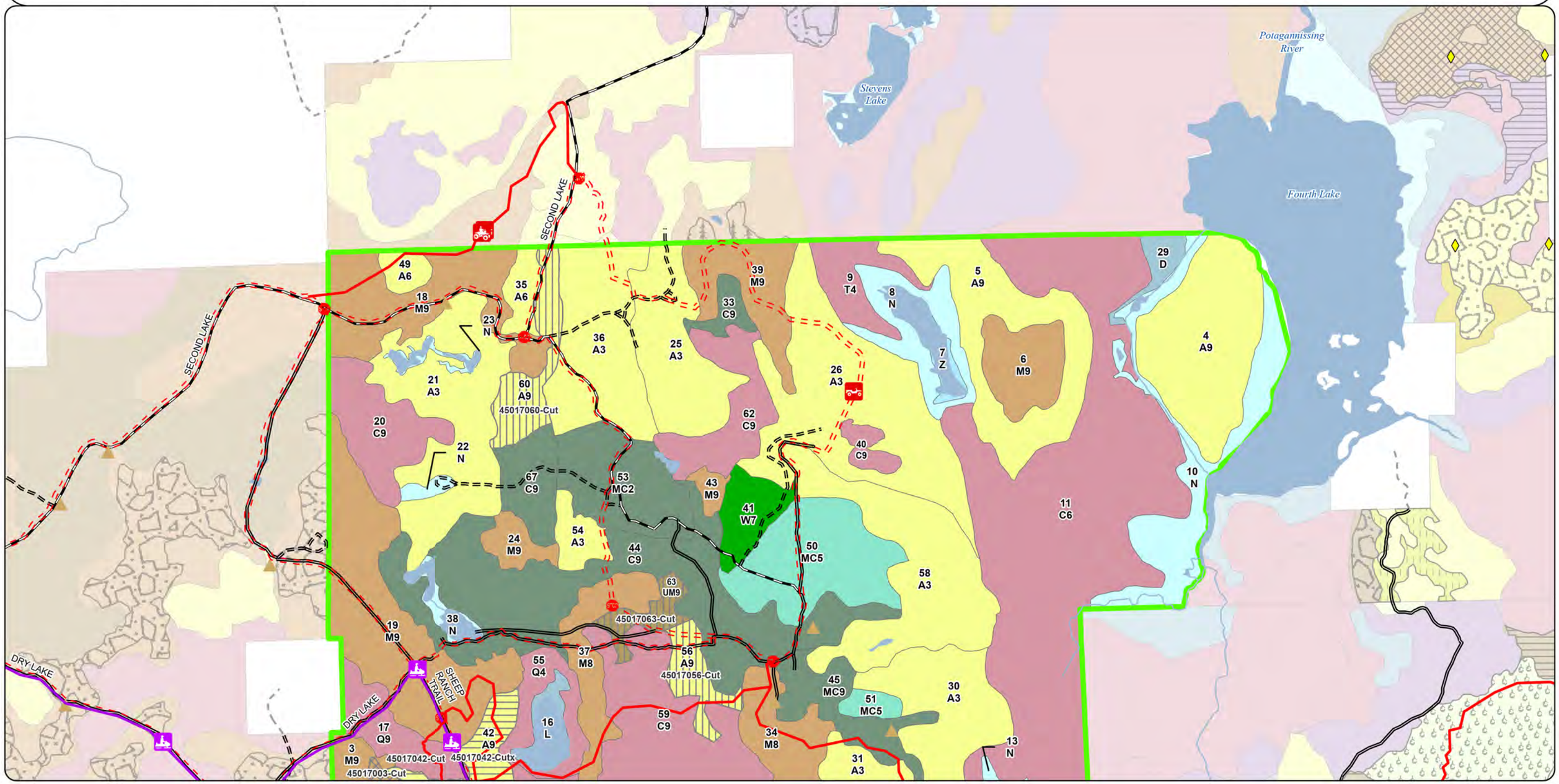

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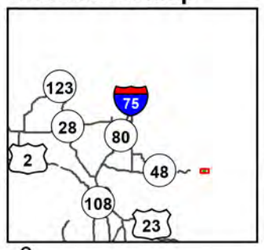

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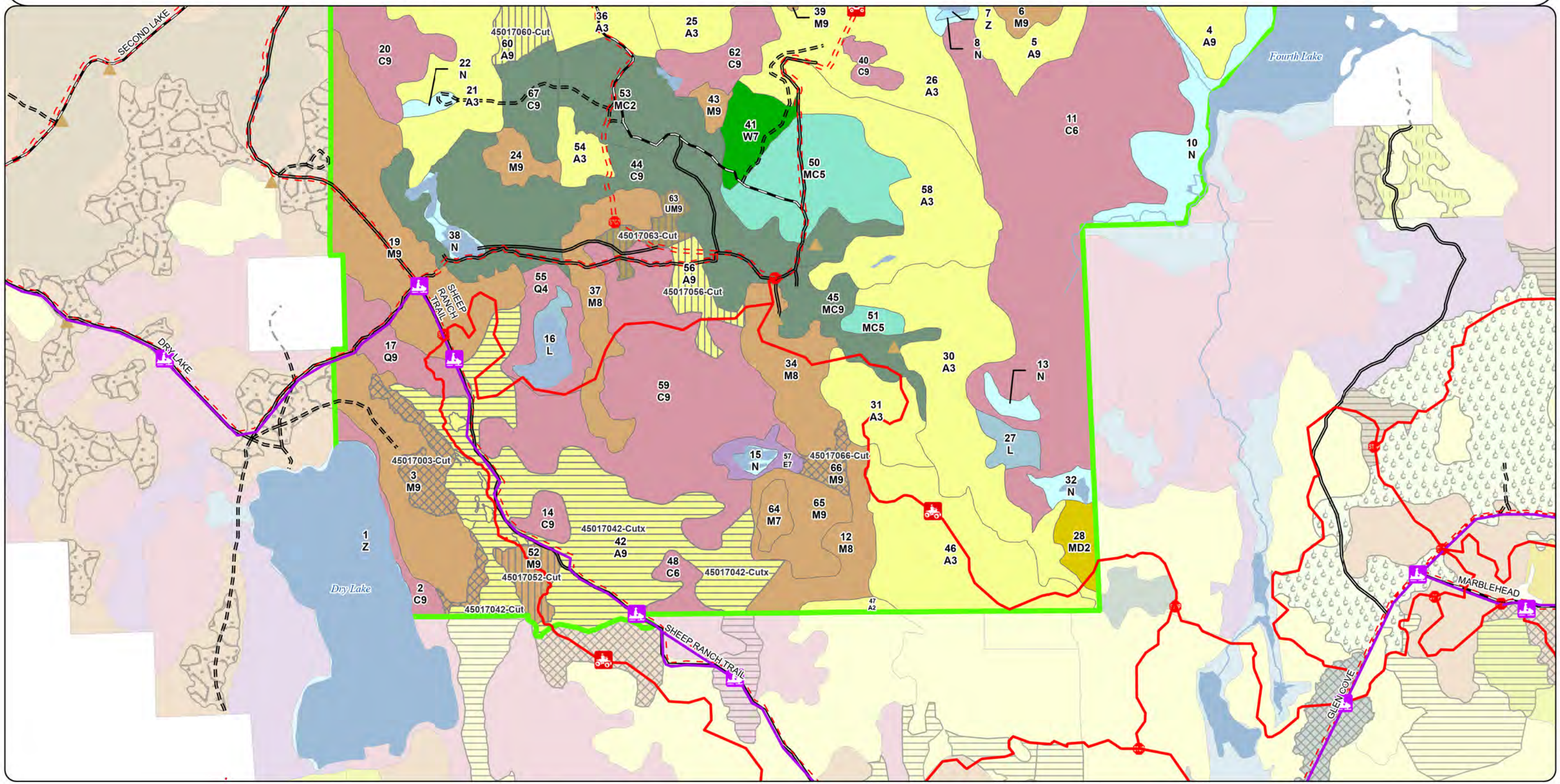
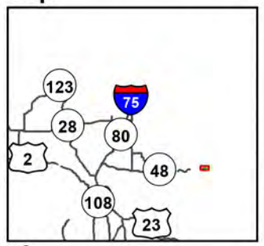


Stand Boundary Map



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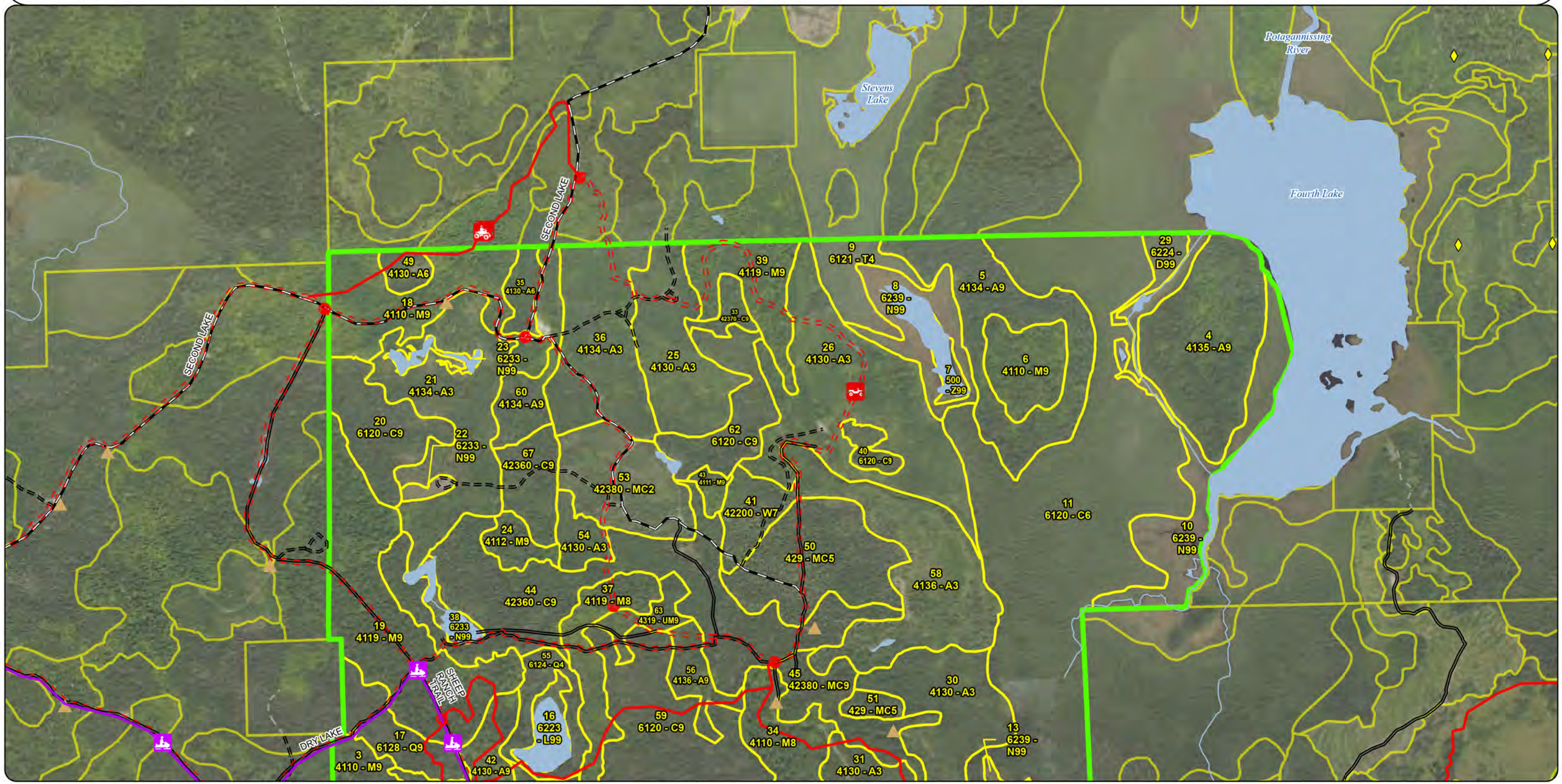

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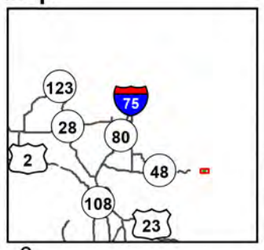

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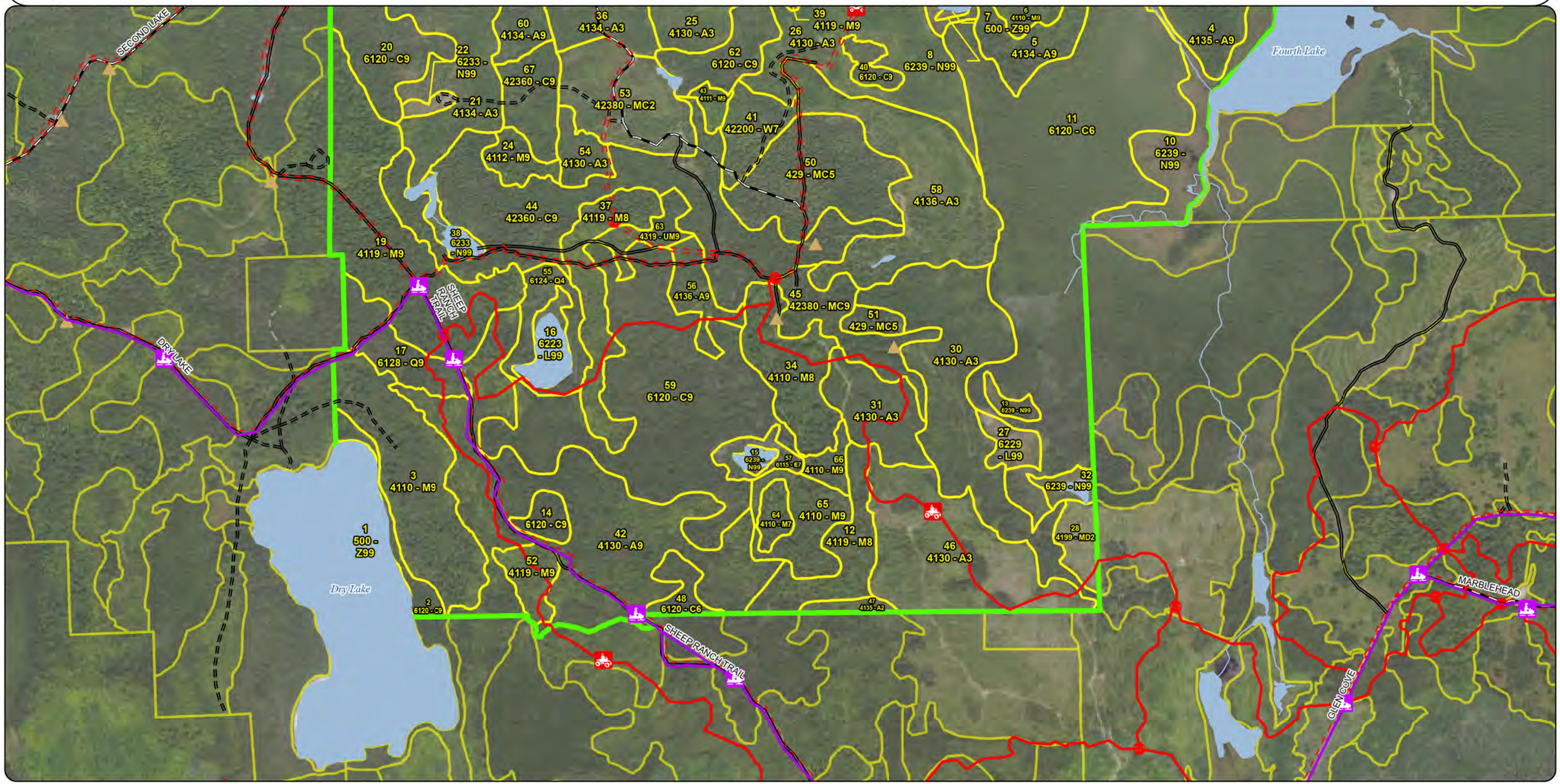

Special Conservation Areas & Site Conditions Map

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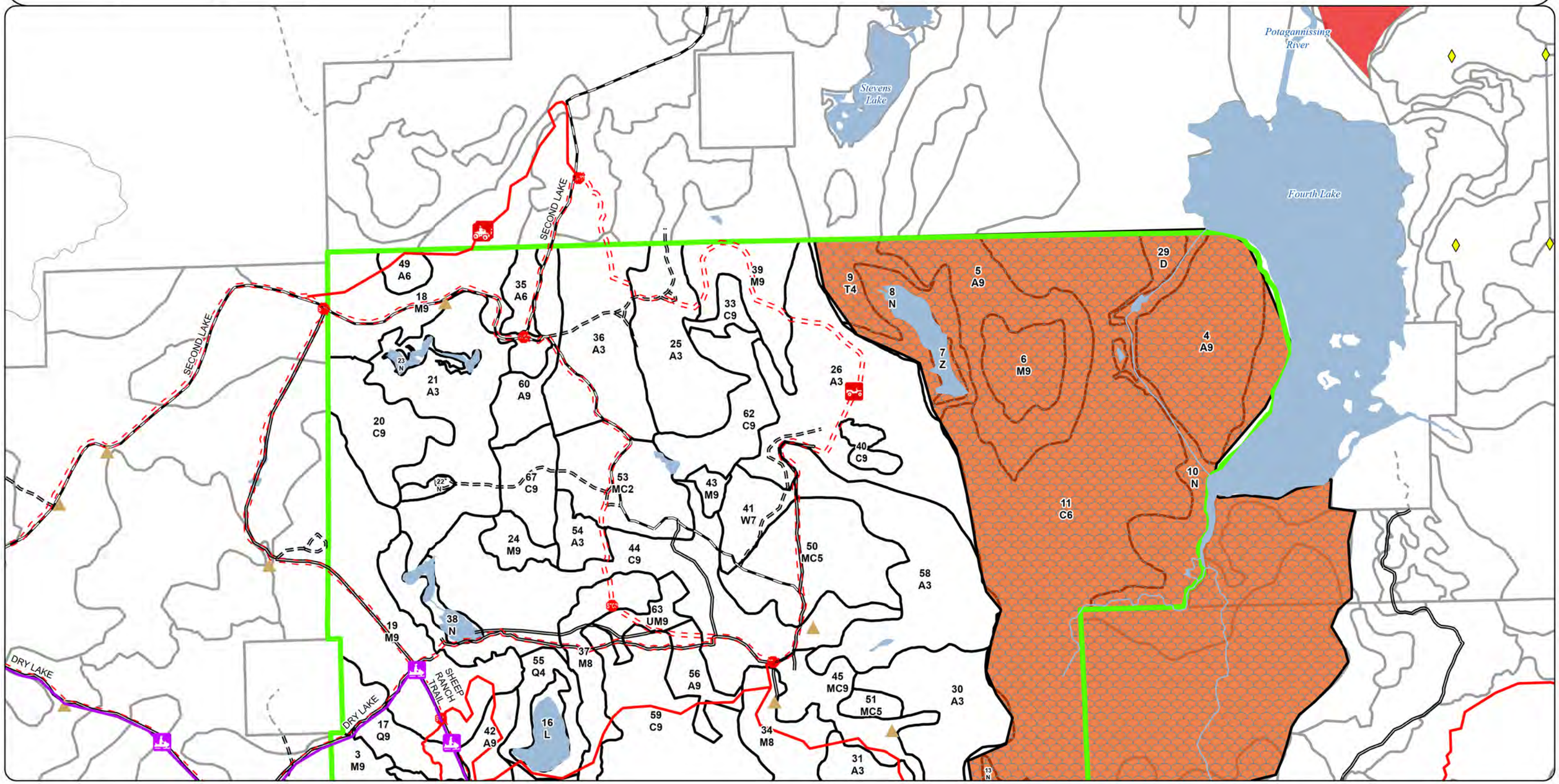
- Stand Boundaries
- Ecological Reference Areas
- SCA Removal
- Other Habitat Area



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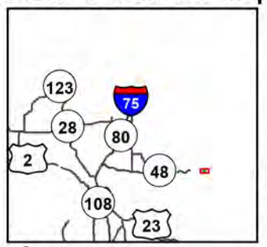

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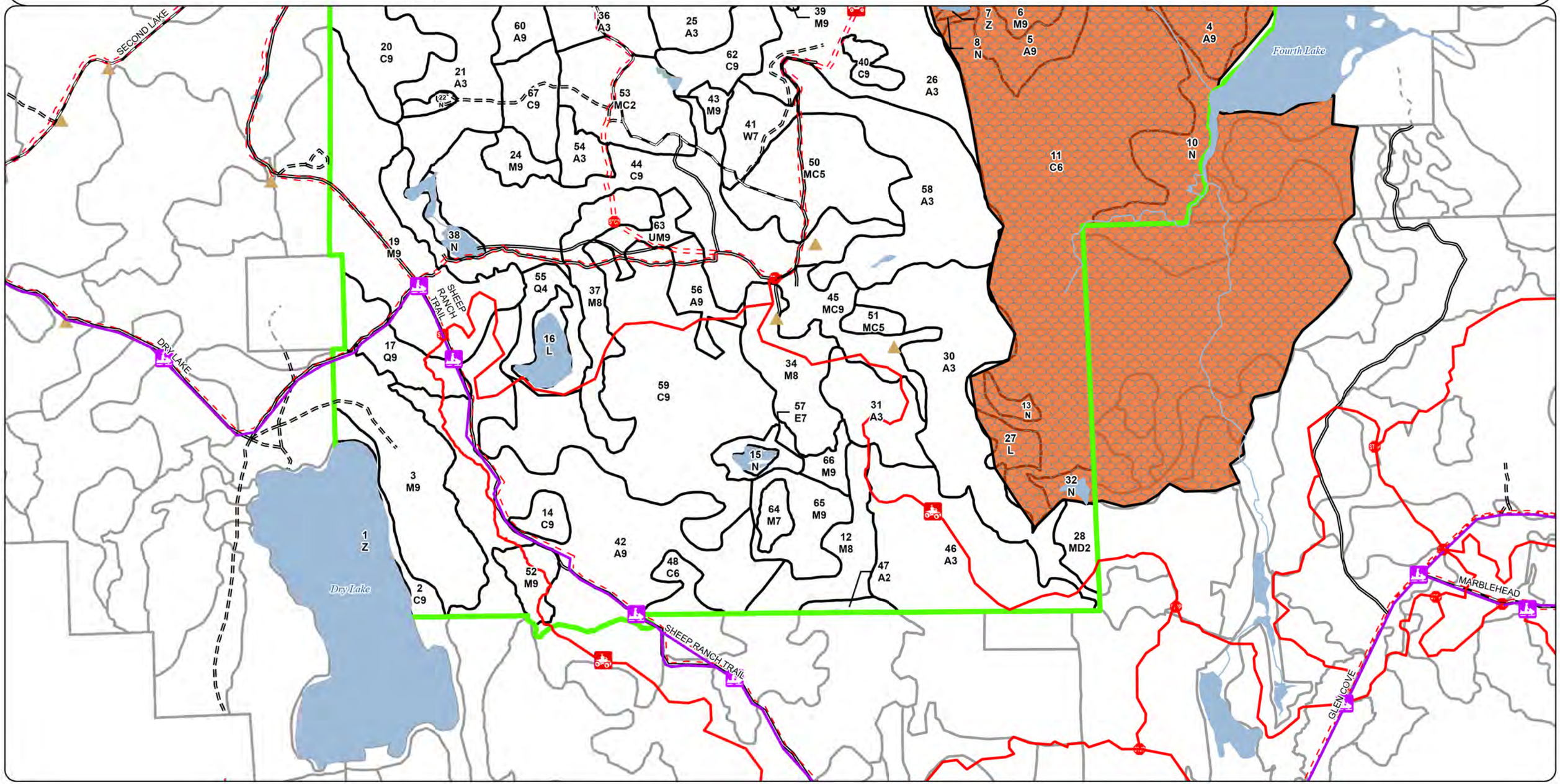

Report 1 – Total Acres by Cover Type and Age Class

Sault Ste. Marie Mgt. Unit **Compartment 17** **Year of Entry 2027**

Louis Radecki: 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	91	302	273	20	0	0	0	0	0	178	178	26	0	0	0	0	0	**1068**
Cedar	0	0	0	0	0	0	0	0	0	0	735	24	8	10	0	0	0	0	**777**
Lowland Conifers	0	0	0	0	0	0	22	0	0	0	28	0	0	0	0	0	0	0	**50**
Lowland Deciduous	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	**9**
Lowland Shrub	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**24**
Marsh	136	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**136**
Mixed Upland Deciduous	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**13**
Northern Hardwood	0	0	0	0	0	0	0	0	28	73	201	85	86	33	0	0	0	0	**506**
Tamarack	0	0	0	0	0	0	0	24	0	0	0	0	0	0	0	0	0	0	**24**
Treed Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**9**
Upland Conifers	0	0	0	59	0	0	0	0	67	0	33	0	0	0	0	0	0	0	**158**
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	**13**
Water	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**50**
White Pine	0	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	**21**
Total	**219**	**104**	**302**	**332**	**20**	**0**	**22**	**54**	**95**	**73**	**1188**	**287**	**120**	**43**	**0**	**0**	**0**	**0**	**2858**

Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2027

Compartment 17
Total Compartment Acres: 2,856

Acres of Harvest

Commercial Harvest - 562
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	175	0	0	0	43	0	0	0	0	**218**
Northern Hardwood	0	31	0	0	14	0	0	0	0	**46**
Upland Mixed Forest	0	0	0	0	13	0	0	0	0	**13**
Total	**175**	**31**	**0**	**0**	**70**	**0**	**0**	**0**	**0**	**276**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	276	0	0	0	0	0	0	0	0	**276**
Next Step	0	0	0	0	0	0	284	0	0	**284**
Total	**276**	**0**	**0**	**0**	**0**	**0**	**284**	**0**	**0**	**560**

Proposed Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
3	45017003-Cut	23.4	4110 - Sugar Maple Association	9	112	81-110	Harvest	Selection	411 - Northern Hardwood	Cutting Record	No

Prescription Specs: Thin stand to 80 BA. Avoid harvesting oak, yellow birch, and healthy beech where possible.

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

Acceptable Regen: maple, oak, yellow birch,

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

42	45017042-Cutx	121.6	4130 - Aspen	9	96	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No

Prescription Specs: Cut all trees down to 2" DBH. Do not cut oak, cedar, yellow birch, basswood, pine, beech, or hemlock.Mark 1 mature maple per acre for retention. Retention requirements will be met by not harvesting cedar, oak, hemlock, and beech.Do not cut areas with

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

Acceptable Regen: aspen, birch, maple, oak

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

56	45017056-Cut	16.7	4136 - Aspen, Mixed Conifer	9	101	111-140	Harvest	Shelterwood	413 - Aspen	Planting Record	No

Prescription Specs: Cut all trees 2" DBH and above. Do not cut pine, cedar, yellow birch, oak, beech, or hemlock.Mark 1 mature maple per acre for retention. Retention goals exceeded by the leave species.

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

Acceptable Regen: aspen, maple, paper birch, pine.

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

60	45017060-Cut	26.1	4134 - Aspen, Spruce/Fir	9	110	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Planting Record	No

Prescription Specs: Cut all trees 2" DBH and above. EXCEPT do not cut pine, sugar maple, or cedar.

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

Acceptable Regen: aspen, birch, spruce, fir, maple.

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
63	45017063-Cut	12.6	4319 - Mixed Upland Forest	9	93	81-110	Harvest	Shelterwood	4319 - Mixed Upland Forest	Planting Record	No

Prescription Specs: Cut all trees 2" DBH and above. Do not cut pine, cedar, yellow birch, oak, beech, or hemlock.Retention goals exceeded by the leave species.

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

Acceptable Regen: aspen, birch, maple, pine.

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

66	45017066-Cut	7.9	4110 - Sugar Maple Association	9	86	111-140	Harvest	Selection	411 - Northern Hardwood	Cutting Record	No

Prescription Specs: Create gaps 0.2 - 0.5 acres in size totaling 10-20% of the treatment area; then thin to 80 BA throughout Buffer the stream in the south of the stand in accordance with applicable BMPs

Next Step Treatments: Monitoring, Natural Regen (Intermediate); Monitoring, Natural Regen (Intermediate)

Acceptable Regen: maple, yellow birch, hemlock, oak.

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

Approved Treatments:

42	45017042-Cut	53.6	4130 - Aspen	9	96	111-140	Harvest	Clearcut	413 - Aspen	Planting Record	No

Prescription Specs: Cut all deciduous 2" or more and conifer 4" or more to maintain the early successional habitat for deer, ruffed grouse, & other wildlife. Leave at least 1 acre retention patches. Do not cut oak and cedar due to their value to wildlife. Stay out of cedar p

Next Step Treatments: Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Acceptable regeneration includes aspen, birch, maple, spruce, fir, cedar, hemlock, beech, oak.

Other Comment: Only treat a smaller portion of the stand at this treatment.

Site Condition:

Proposed Start Date: 10/01/2021

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
52	45017052-Cut	14.3	4119 - Mixed Northern Hardwoods	9	96	111-140	Harvest	Shelterwood	4111 - S.Maple, Hard Mast Association	Planting Record	No

Prescription Specs: Mark the stand leaving 40 basal area throughout. Cut all aspen, beech, and birch. Do not cut any cedar, hemlock, yellow birch, or red oak. Leave higher canopy closure over areas with large boulders to provide habitat to rare species.

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

Acceptable Regen: Any mix of sugar maple, red oak, yellow birch, aspen, red maple, cedar, and fir.

Other Comment: Approved through the post compartment review process. Try arranging slash to deter deer, consult with TMS as to what has been working in the Walters Research.

Site Condition:

Proposed Start Date: 10/01/2021

Total Treatment Acreage Proposed: 276.2

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Louis Radecki: Examiner

Compartment: 17

Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions 1C	3A	3J	3L	5E
901	715	*0*	186	**Aspen**	15	161			9
755	17	*0*	739	**Cedar**		312	13	414	
50	50	*0*	0	**Lowland Conifers**					
9	9	*0*	0	**Lowland Deciduous**					
24	24	*0*	0	**Lowland Shrub**					
81	68	*0*	13	**Marsh**		13			
13	13	*0*	0	**Mixed Upland Deciduous**					
495	464	*0*	31	**Northern Hardwood**		30		1	
24	0	*0*	24	**Tamarack**		24			
9	0	*0*	9	**Treed Bog**		9			
151	125	*0*	26	**Upland Conifers**				26	
13	13	*0*	0	**Upland Mixed Forest**					
50	50	*0*	0	**Water**					
21	21	*0*	0	**White Pine**					
2,595	1,568		1,027	Total Forested Acres	15	549	13	441	9
	60%		40%	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**	**3L: Other wildlife concerns**	19	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Too much cedar in these stand to harvest, WLD would like it left.

2		**Unavailable**	**1C: Other Dept. or Div. process**	15	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
See locked comments

3	**Unavailable**	**5E: Long-Term Retention**	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention from Rocky Road Aspen sale							
5	**Unavailable**	**5E: Long-Term Retention**	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	**Unavailable**	**5E: Long-Term Retention**	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	**Unavailable**	**3J: Water quality/BMPs (stream, river, or lake)**	13	3L: Other wildlife concerns	Unspecified	Unspecified	Unspecified
Comments: Buffer along the lake that happens to be cedar							
11	**Unavailable**	**3A: Conservation values incompatible with harvest at this time**	549	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Other habitat area SCA propose to add to DHA							
12	**Unavailable**	**3L: Other wildlife concerns**	422	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar stand on purchased land. WLD would like to leave							

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

Report 7 – Stands

Compartment: 17
Year of Entry: 2027

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	500 - Water	None	40.5			No	
2	6120 - Lowland Cedar	Sawtimber Well	12.5	95	141-170	N/A	Strip of cedar along the shore of Dry Lake. Area to the south near the compartment line is more open with some ash and tag alder.
3	4110 - Sugar Maple Association	Sawtimber Well	77.7	112	81-110	N/A	Nice hardwood stand bordering Dry Lake. Some areas of exposed bed rock with deep cracks. Regen looks like it is mostly maple with some of the more open areas being dominated by beech. Lots of diseased beech. Sale 007-15, beech and ash salvage, cut in 2020.2024. Understory primarily beech 10-20ft. Sugar maple regeneration insufficient. Lots of browse evident on sugar maple seedlings suppressing growth. North area has less maple and more beech seedlingsUnharvested areas contain limited regeneration.
4	4135 - Aspen, Cedar	Sawtimber Well	84.9	100	111-140	N/A	Stand was remotely surveyed in 2025; stand data is from previous inventory.
5	4134 - Aspen, Spruce/Fir	Sawtimber Well	76.5	104	141-170	N/A	Stand is mostly aspen/birch in the area adjacent to the hardwood then as you go up into the north finger it gets a little bit lower and turns into the typical aspen over cedar. There is a lot of established maple regeneration in the aspen/birch portion of the stand. The northern part that is aspen over cedar looks like it could be operated in. The thickest cedar is adjacent to the lowland.Stand was remote inspected on 5/30/25. Stand data is from 03/25/2015.

Stand 2

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	3	Seedling	6	
Balsam Fir	5	Seedling	8	
Tamarack	5		9	
Northern White Cedar	75		11	95
Paper Birch	10	Seedling	8	
Bigtooth Aspen	2		13	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
White Spruce	Medium	5 - 10 feet	5 - 10 feet

Stand 3

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	2		15	
Beech	1		18	
Red Oak	2		14	
Sugar Maple	89		12	112
Paper Birch	1	Seedling	8	
Bigtooth Aspen	5		13	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	High	< 5 feet	< 5 feet
Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Beech	High	10 - 20 feet	10 - 20 feet
White Spruce	Low	5 - 10 feet	5 - 10 feet
Ironwood	Low	10 - 20 feet	10 - 20 feet
Blackberry/Raspberry	Medium	5 - 10 feet	5 - 10 feet
White Ash	Low	< 5 feet	< 5 feet

Stand 4

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	40		14	100
Northern White Cedar	20		12	
Sugar Maple	20		14	
Paper Birch	20		12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable

Stand 5

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	15		11	
Quaking Aspen	40		13	104
Balsam Poplar	6		9	
American Elm	2	Seedling	6	
Balsam Fir	5	Seedling	8	
Beech	2	Seedling	7	
White Spruce	15		12	
Northern White Cedar	15		12	

Sub-Canopy Species	Density	Avg. Height	Size
Maple (spp.)	Medium	Variable	Variable
Ironwood	Low	Variable	Variable
Beech	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	Variable	Variable
Northern White Cedar	Low	Variable	Variable
White Spruce	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
6	4110 - Sugar Maple Association	Sawtimber Well	30.0	106	111-140	N/A	This is a neat old stand of hardwoods with very large trees. Looks like it is untouched for the most part. Stand was remote viewed 5/30/25. Stand data is from 03/25/2015
7	500 - Water	None	9.3			No	Stand has a beaver dam along the south edge with two beaver lodges in the pond.
8	6239 - Mixed Emergent Wetland	None	34.2			No	Wetland stand with cattails and dead cedar.Stand was remote viewed 5/30/25. Last field inspection was 03/25/2015
9	6121 - Tamarack	Poletimber Poor	23.5	65	1-50	N/A	Most of the cedar in this stand died when the beavers build the dam many years ago. Now there is tamarack growing amongst the cedar snags and stumps with cedar regeneration that is about 5' tall. Up to the north along the compartment line the stand is more of a C6 comparable to the stand in the adjacent compartment.Stand was remote inspected on 5/30/25. Stand data is from 3/25/2015.
10	6239 - Mixed Emergent Wetland	None	67.3			No	
11	6120 - Lowland Cedar	Poletimber Well	312.4	93	171-200	N/A	Stand is really nice cedar along the aspen clearcut edge but as you get closer to Fourth Lake the stand gets small and more wet.
12	4119 - Mixed Northern Hardwoods	Sawtimber Medium	33.0	120	81-110	N/A	This stand has canopy gaps containing aspen, but almost none in the overstory. Based on the age of the maple the aspen may have died out resulting in the canopy gaps. Along the edges paper birch can be found. Ironwood common throughout.

6

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	70		15	106
Basswood	10		15	
Beech	10		15	
White Spruce	5		9	
Yellow Birch	3	Seedling	8	
Ironwood	2	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Medium	5 - 10 feet	5 - 10 feet
Conifers	Low	Variable	Variable
Ironwood	Low	Variable	Variable
Maple (spp.)	Medium	Variable	Variable

9

Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	60	Sapling	5	65
Northern White Cedar	40	Pole	2	

11

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Seedling	8	
Tamarack	15		9	
White Spruce	10		11	
Northern White Cedar	70		9	93

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	Variable	Variable
Ash (spp.)	Low	Variable	Variable
Balsam Fir	Medium	Variable	Variable

12

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	1		18	
Ironwood	15	Seedling	8	
Beech	2		17	
Red Oak	4		10	
Northern White Cedar	5		15	
Sugar Maple	62		12	120
Paper Birch	7	Seedling	8	
Bigtooth Aspen	4		18	

Sub-Canopy Species	Density	Avg. Height	Size
White Ash	Low	< 5 feet	< 5 feet
Sugar Maple	Medium	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	Medium	5 - 10 feet	5 - 10 feet
Ironwood	Medium	>20 feet	>20 feet
Balsam Fir	Medium	Variable	Variable
Beech	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	6239 - Mixed Emergent Wetland	None	5.1			No	There is water flowing in this stand that was open even in march when everything else was frozen. Mostly wetland species with scattered tamaracks and stumps/snags. Old beaver dam stretches the whole south side of this stand. Appears to be fed from a spring in the north end.
14	6120 - Lowland Cedar	Sawtimber Well	8.7	97	171-200	N/A	Stand of cedar that is too thick to cut in. East of the old road the stand gets a little smaller in DBH, more mixed and has a heavier understory. West of the old road it is giant cedar that is open underneath.
15	6239 - Mixed Emergent Wetland	None	3.6			No	Stand is seasonally flooded mostly grasses.
16	6223 - Inundated Shrub Swamp	None	13.7			No	Pond is seasonally flooded and might hold some water year round.
17	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	27.6	97	141-170	N/A	Mixed conifer stand with some patches of thick cedar. The rest of the stand is more mixed with cedar, aspen, spruce and fir.

13 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Low	10 - 20 feet	10 - 20 feet
Mixed Sedges/Grasses	Medium	Not Applicable	Not Applicable
Cattail spp.	Medium	Not Applicable	Not Applicable
Black Spruce	Low	< 5 feet	< 5 feet

14 — Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Seedling	9	
Quaking Aspen	15		12	
White Spruce	5	Seedling	7	
Northern White Cedar	60		10	97
Balsam Fir	5	Seedling	6	
Tamarack	10	Seedling	7	

14 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable
Labrador Tea	High	< 5 feet	< 5 feet

16 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	10 - 20 feet
Northern White Cedar	Low	5 - 10 feet	5 - 10 feet
Red Osier Dogwood	Medium	5 - 10 feet	5 - 10 feet
Bearberry	Low	< 5 feet	< 5 feet
Tamarack	Low	5 - 10 feet	5 - 10 feet
Common Or Ground Juniper	Low	< 5 feet	< 5 feet

17 — Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	14	Seedling	8	
White Pine	1		18	
Red Oak	1	Seedling	8	
White Spruce	20		9	
Northern White Cedar	45		10	97
Red Maple	2	Seedling	8	
Paper Birch	2	Seedling	8	
Bigtooth Aspen	15		13	

17 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable
Ironwood	Low	5 - 10 feet	5 - 10 feet
Red Maple	Low	5 - 10 feet	5 - 10 feet
White Spruce	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	4110 - Sugar Maple Association	Sawtimber Well	65.0	88	51-80	N/A	Beech was removed from the western part of the stand in 2017. Stand was last thinned in 2001 as the Second Lake Hardwood sale. in many area no regeneration. BA is a little low to harvest, let the stand grow. Lots of beech regen in SW. Scattered cedar in the stand. A good size ridge runs through the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	75		12	88
Ironwood	3	Seedling	8	
Basswood	10		14	
White Ash	5		14	
Beech	5		12	
Northern White Cedar	2		13	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	Variable	Variable
Sugar Maple	Medium	10 - 20 feet	10 - 20 feet
White Spruce	Low	Variable	Variable
Balsam Fir	Low	Variable	Variable
Beech	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	4119 - Mixed Northern Hardwoods	Sawtimber Well	104.6	92	51-80	N/A	Stand was thinned in 2012 as part of Smurf Hardwoods. Stand is mostly sugar maple with beech mixed in especially in the north end of the stand. The stand has quite a bit of beech regeneration; some desirable regeneration, but not enough to stock the stand. Scattered oak, hemlock and cedar. Sale 007-15 beech and ash salvage, cut in 2019-20.

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	2		14	
White Ash	2		14	
Sugar Maple	74		11	92
Paper Birch	5		10	
Bigtooth Aspen	5		14	
Beech	5		13	
Red Oak	2		13	
Northern White Cedar	2		10	
Hemlock	3		14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Variable
White Ash	Medium	5 - 10 feet	5 - 10 feet
White Spruce	Low	< 5 feet	< 5 feet
Ironwood	Medium	5 - 10 feet	5 - 10 feet
Beech	Medium	5 - 10 feet	5 - 10 feet
Sugar Maple	High	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
20	6120 - Lowland Cedar	Sawtimber Well	40.7	95	171-200	N/A	Very large aspen over cedar. Lots of blow down but not a lot of regeneration in the understory. There are some areas in this stand that are operable. The southern portions of the stand seem to be thicker with cedar than the north. The north part of the stand is different and is more of a mixed of aspen and spruce with scattered cedar. A little bit higher ground here.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20		14	
Paper Birch	3		10	
White Pine	5		16	
White Spruce	15		14	
Northern White Cedar	57		10	95

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Saplings	Low	5 - 10 feet	5 - 10 feet
White Spruce	Low	Variable	Variable
Balsam Fir	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	4134 - Aspen, Spruce/Fir	Sapling Well	87.9	29	Immature	N/A	Stand was cut in1996 as part of Second Lake Sale. Regeneration is now 15-20 ft tall mostly aspen with conifers in the understory. Some areas of pole size mixed conifers that were left during harvest. There are areas in the north part of the stand that are more open.
22	6233 - Wet Meadow	None	3.7			No	This stand is seasonally flooded. A few scattered trees but mostly a grass opening.
23	6233 - Wet Meadow	None	5.3			No	This stand is seasonally flooded. Mostly grasses with scattered trees.
24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	11.5	102	81-110	N/A	Stand was last thinned in 2012 as part of Smurf Hardwoods. This stand has a lot of beech with BBD. Scattered hemlock and cedar. Lots of young beech in the understory. Some canopy beech has died; the remaining exhibit beech scale, but look otherwise healthy relative to other infested stands. Beech nut husks are plentiful on the forest floor.
25	4130 - Aspen	Sapling Well	56.5	14	Immature	N/A	Stand was cut in 2011 as part of Rocky Road Aspen. Awesome aspen regeneration with scattered overstory trees. The north end of the stand is a little lower and is mostly balsam poplar. There is a good size ridge in the stand south of the two track.

21 — Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Sapling	5	
Quaking Aspen	30	Pole	4	29
Ironwood	3	Log	2	
Paper Birch	5	Log	1	
Bigtooth Aspen	20	Pole	4	
Black Ash	2	Log	3	
Red Oak	2	Seedling	6	
White Spruce	10	Pole	3	
Northern White Cedar	2	Seedling	5	
White Pine	10	Pole	3	
Black Cherry	3	Log	1	
Striped Maple	3	Log	2	

21 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Medium	< 5 feet	< 5 feet
Quaking Aspen	Medium	Variable	Variable
Balsam Fir	Medium	< 5 feet	< 5 feet

23 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Red Osier Dogwood	Low	< 5 feet	< 5 feet
Mixed Grasses	Full	Not Applicable	Not Applicable

24 — Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Ironwood	2	Seedling	8	
Sugar Maple	50		13	102
Paper Birch	5		12	
Bigtooth Aspen	8		15	
Beech	30		13	
Northern White Cedar	2		13	
Hemlock	3		15	

24 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Maple (spp.)	Medium	Variable	Variable
Beech	High	5 - 10 feet	5 - 10 feet

25 — Canopy Species

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	20	Log	3	
White Pine	3		12	
Quaking Aspen	40	Log	3	14
Red Oak	2		14	
Northern White Cedar	3		8	
Paper Birch	2	Seedling	9	
Bigtooth Aspen	30	Log	3	

25 — Sub-Canopy Species

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	5 - 10 feet
Ironwood	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	4130 - Aspen	Sapling Well	118.0	12	Immature	N/A	Most of this stand, along with 41 and 58, was cut in 2012 with the exception of a few areas that were finished up in 2014. This was part of Rocky Road Aspen. Aspen is coming in very nicely with the only spots lacking regeneration where harvesting took place last winter. Scattered pole size trees throughout the sale. Most of the pine in the stand is at the southern end. Retention left on rock ledges through the middle of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole	1	
Red Oak	2		14	
White Spruce	5	Sapling	5	
Northern White Cedar	2		9	
Paper Birch	3	Seedling	8	
Quaking Aspen	74	Log	2	12
Ironwood	2	Seedling	6	
Balsam Poplar	5	Log	1	
White Pine	2		13	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	< 5 feet
White Spruce	Low	< 5 feet	< 5 feet
Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	6229 - Mixed Lowland Shrub	None	10.1			No	Old Beaver flooding. A cone of balsam poplar in the stand along with lots of shrubs. Beaver dam on north side of the stand.

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Red Osier Dogwood	Medium	< 5 feet	< 5 feet
Black Spruce	Low	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
28	4199 - Other Mixed Upland Deciduous	Sapling Medium	13.0	5	Immature	N/A	This stand was cut in the summer of 2020 as part of Compartment Line MixStand is regenerating primarily with BAM.

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	5	Log	1	
Quaking Aspen	10	Log	1	
Balsam Poplar	85	Log	1	5

Sub-Canopy Species	Density	Avg. Height	Size
Red Osier Dogwood	Low	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
29	6224 - Treed Bog	None	9.1			No	Eastern portion of cedar stand 11. the trees become smaller and more sparse the further east you go, comprising a treed bog stand as opposed to a forested cedar stand

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
30	4130 - Aspen	Sapling Well	101.0	24	Immature	N/A	Stand was cut in 2001 as the Stand 31 Aspen sale. Nice aspen and balsam poplar regeneration in this stand with scattered large poles throughout the stand. Fir and spruce are coming in under the aspen. Southern portion of this stand is more wet and has most of the balsam poplar. The northern portion of this stand has scattered red and white pine that were left during the harvest. Streaks of retention present through the middle of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	3	Pole	4	
Paper Birch	5	Seedling	6	
Bigtooth Aspen	15	Sapling	5	
White Spruce	3	Pole	4	
Balsam Poplar	18	Pole	4	
White Pine	3		14	
Quaking Aspen	49	Pole	4	24
Ironwood	2	Seedling	5	
Red Pine	2		14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Hazelnut (Beaked)	Low	5 - 10 feet	5 - 10 feet
Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet
White Spruce	Low	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
31	4130 - Aspen	Sapling Well	33.4	13	Immature	N/A	Stand was cut in 2012 as part of Rocky Road Aspen. Very nice aspen regeneration with balsam and spruce. Small pole size maple, ironwood and beech were left in the sale.
32	6239 - Mixed Emergent Wetland	None	7.4			No	Beaver Flooding.
33	42370 - Upland Cedar, Aspen	Sawtimber Well	8.6	96	171-200	N/A	This cedar stand has a higher component of aspen. transitional between the thicker cedar to the south and the adjacent northern hardwoods.
34	4110 - Sugar Maple Association	Sawtimber Medium	42.6	103	81-110	N/A	Sale 008-14, beech and ash salvage, cut in 2017.Lots of beech brush in the salvage areas. Free to grow sugar maple is present throughout the salvage area, but is not plentiful enough to meet the regeneration guidelines. Sugar and Striped maple seedlings are browsed very heavily.
35	4130 - Aspen	Poletimber Well	11.5	31	51-80	N/A	Stand was cut in 1994 as part of Second Lake Sale. Nice pole sized stand. Aspen over spruce/fir with some scattered larger dbh trees.

31

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	1	Seedling	5	
Bigtooth Aspen	10	Log	3	
Quaking Aspen	72	Log	3	13
Ironwood	2	Seedling	5	
Balsam Fir	3	Log	2	
Red Oak	2	Seedling	8	
White Spruce	10	Log	3	

33

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	8		15	
Quaking Aspen	27		18	
White Spruce	5		12	
Northern White Cedar	60		15	96

Sub-Canopy Species	Density	Avg. Height	Size
Green Ash	Medium	< 5 feet	< 5 feet
Striped Maple	Low	5 - 10 feet	5 - 10 feet

34

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	4		14	
White Ash	2		13	
Sugar Maple	82		11	103
Paper Birch	3	Seedling	9	
Bigtooth Aspen	2		14	
Beech	2		13	
Northern White Cedar	2		12	
Hemlock	3		13	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Low	Variable	Variable
Sugar Maple	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	Variable	Variable
Blackberry/Raspberry	Medium	< 5 feet	< 5 feet
Beech	High	5 - 10 feet	5 - 10 feet
Striped Maple	Medium	5 - 10 feet	5 - 10 feet
White Spruce	Low	10 - 20 feet	10 - 20 feet

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Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Seedling	5	
White Pine	2		15	
White Spruce	2	Seedling	7	
Northern White Cedar	2	Seedling	6	
Quaking Aspen	80	Seedling	7	31
Ironwood	4	Seedling	5	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	High	>20 feet	>20 feet
White Spruce	Low	5 - 10 feet	5 - 10 feet
Sugar Maple	Low	< 5 feet	< 5 feet
Ironwood	Low	5 - 10 feet	5 - 10 feet
Quaking Aspen	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	4134 - Aspen, Spruce/Fir	Sapling Well	71.2	29	1-50	N/A	Stand was cut in 1996 as part of Second Lake Road Sale. Came back fairly nicely after harvest. Some areas where bedrock is close to the surface have come back to more of a MC type with a more open canopy than areas of aspen. Scattered log and pole size aspen, oak, white pine left during harvest. There is a patch of retention that was left toward the north end of the stand that is pole size spruce and fir.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	55	Pole	4	29
Balsam Poplar	2	Seedling	9	
White Pine	5	Pole	3	
Beech	2	Log	1	
Red Oak	2	Seedling	8	
White Spruce	12	Seedling	7	
Red Pine	2	Log	3	
Sugar Maple	2	Pole	3	
Sugar Maple	1		12	
Bigtooth Aspen	5	Pole	4	
Balsam Fir	11	Pole	2	
Tamarack	1	Log	3	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Sugar Maple	High	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
37	4119 - Mixed Northern Hardwoods	Sawtimber Medium	40.0	96	81-110	N/A	Stand was set up for a beech salvage in 2015 but was never harvested. Stand was last thinned in 2001 as the timber sale Hook Hardwoods. Fair amount of beech in this stand. Scattered conifers throughout the stand. Stand is access from a skid trail at the north end or along the orv trail towards the south.Some areas have relatively full canopy and are around 110 BA, other areas have 30% canopy cover and 50 BA.

Canopy Species	% Cover	Size Class	DBH	Age
Ironwood	3	Seedling	5	
Beech	20		13	
Red Oak	2		13	
White Spruce	5		12	
Northern White Cedar	3		11	
Hemlock	2		14	
Sugar Maple	55		11	96
Paper Birch	5		12	
Bigtooth Aspen	5		14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	< 5 feet	< 5 feet
Beech	High	10 - 20 feet	10 - 20 feet
Yellow Birch	Low	10 - 20 feet	10 - 20 feet
Bigtooth Aspen	Medium	10 - 20 feet	10 - 20 feet
Striped Maple	Low	5 - 10 feet	5 - 10 feet
Ironwood	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	6233 - Wet Meadow	None	8.9			No	Stand is seasonally flooded. Mostly grasses with scattered trees(aspen, tamarack).

Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	Low	>20 feet	>20 feet
Mixed Grasses	Full	Not Applicable	Not Applicable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	4119 - Mixed Northern Hardwoods	Sawtimber Well	36.9	95	81-110	N/A	Stand was set up for a beech salvage in 2015 but was not cut. The east half of this stand was thinned in 2011 and the west half was thinned in 2012. Typical of hardwood stands on the island it has aspen and birch mixed in along the fringes. Much of the desirable maple regeneration is overtopped with beech and ash. Areas with significant beech have 80-90 BA while the small area without beech brush has BA ~120.

Canopy Species	% Cover	Size Class	DBH	Age
Ironwood	2	Seedling	8	
White Pine	2		14	
Basswood	10		13	
White Ash	10		13	
Beech	10		13	
Red Oak	5		16	
Northern White Cedar	3		12	
Hemlock	2		16	
Sugar Maple	48		18	95
Paper Birch	3		12	
Bigtooth Aspen	5		16	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Beech	High	>20 feet	>20 feet
White Ash	Medium	10 - 20 feet	10 - 20 feet
Sugar Maple	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	6120 - Lowland Cedar	Sawtimber Well	8.2	119	201+	N/A	Cedar stand that was excluded from the adjacent clearcut. There is hardly anything in the understory of this stand besides blowdowns.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10		9	
White Pine	2		15	
Tamarack	4		11	
White Spruce	4		10	
Northern White Cedar	80		14	119

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
41	42200 - Natural White Pine	Sawtimber Poor	20.6	67	1-50	N/A	Most of this stand was cut in 2012 with the exception of a few areas that were finished up in 2014. This was part of Rocky Road Aspen. Aspen is coming in very nicely. This stand contains much of the pine, oak, and cedar retention from the harvest, creating two distinct age classes.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	6	Seedling	8	
Ironwood	4	Seedling	6	
White Pine	60		13	67
Red Oak	8		14	
White Spruce	8	Sapling	5	
Northern White Cedar	14		9	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	High	>20 feet	>20 feet
Hazelnut (Beaked)	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	High	Variable	Variable
White Pine	Medium	5 - 10 feet	5 - 10 feet
Northern White Cedar	Low	5 - 10 feet	5 - 10 feet
White Spruce	Low	5 - 10 feet	5 - 10 feet
Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet
Bearberry	High	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
42	4130 - Aspen	Sawtimber Well	178.1	96	111-140	N/A	Stand of really nice aspen and paper birch. There is scattered cedar in the stand. Some small patches of hardwood can be found in the southern part of the stand. There are some cool rock ledges to the west of the snowmobile trail.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	11		13	
Beech	2		9	
Red Oak	2		14	
White Spruce	5		12	
Northern White Cedar	5		12	
Hemlock	2		14	
Sugar Maple	8		10	
Paper Birch	15		9	
Bigtooth Aspen	50		13	96

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable
Beech	Low	10 - 20 feet	10 - 20 feet
Sugar Maple	Medium	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
43	4111 - S.Maple, Hard Mast Association	Sawtimber Well	5.2	98	81-110	N/A	Very nice stand of large hardwood. There is no record in the file of this stand being thinned. Typical of Drummond hardwood stands there is aspen along the edges. Not a lot of regeneration in the undeBedrock.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	3		16	
Basswood	15		13	
Sugar Maple	51		13	98
Paper Birch	2		12	
White Pine	2		14	
Beech	20		13	
Red Oak	2		14	
Northern White Cedar	3		12	
Hemlock	2		12	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	Variable	Variable
Beech	High	5 - 10 feet	5 - 10 feet
Sugar Maple	Medium	10 - 20 feet	10 - 20 feet
Striped Maple	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	42360 - Upland Cedar	Sawtimber Well	146.5	90	171-200	N/A	Large cedar stand. It is pretty neat how most of this stand is low but there is also some rocky ledges . Some of the higher ground is supporting groves of hardwood. There isn't much growing in the understory but there are some areas of thick spruce/fir.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	7		15	
Balsam Fir	3	Seedling	8	
Red Maple	2		15	
Paper Birch	3		9	
White Pine	5		14	
White Spruce	5		11	
Northern White Cedar	75		10	90

Sub-Canopy Species	Density	Avg. Height	Size
Red Osier Dogwood	Low	< 5 feet	< 5 feet
Beech	Trace	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sawtimber Well	32.9	90	201+	N/A	Heavy with cedar, this stand is marks a transition from the larger cedar stand to the north and the surrounding mixed hardwoods.

Canopy Species	% Cover	Size Class	DBH	Age
White Ash	2		15	
Balsam Fir	3	Seedling	8	
White Spruce	10		12	
Northern White Cedar	53		14	90
Sugar Maple	10		14	
Paper Birch	1		10	
Bigtooth Aspen	20		18	
White Pine	1		25	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	< 5 feet	< 5 feet
Quaking Aspen	Low	< 5 feet	< 5 feet
Sugar Maple	Low	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
46	4130 - Aspen	Sapling Well	90.8	8	Immature	N/A	The western portion of this stand was cut in the summer of 2018, the SE corner of the stand was cut in summer of 2020. This was part of the Compartment Line Mix Sale.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	1	Log	1	
Balsam Poplar	4	Log	1	
White Pine	1		15	
Sugar Maple	5	Seedling	7	
Paper Birch	1	Log	1	
Bigtooth Aspen	86	Log	1	8
White Spruce	2	Log	3	

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Medium	< 5 feet	< 5 feet
Balsam Fir	Low	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	4135 - Aspen, Cedar	Sapling Medium	5.2	14	Immature	N/A	Aspen clearcut from the adjacent compartment. Cedar was left during the harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	40	Log	2	14
Bigtooth Aspen	10	Log	2	
Balsam Poplar	10	Log	2	
Balsam Fir	10	Log	2	
White Spruce	10	Log	2	
Northern White Cedar	20	Seedling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	5 - 10 feet	5 - 10 feet
Yellow Birch	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Striped Maple	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
48	6120 - Lowland Cedar	Poletimber Well	10.3	121	141-170	N/A	Area of cedar in the aspen complex. The southern portion of the stand is the most pure cedar. It is more mixed at the north end of the stand. Very little in the understory besides blow downs. The north end is drier.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10		12	
White Pine	2		13	
White Spruce	3		11	
Northern White Cedar	80		9	121
Paper Birch	5	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Saplings	Low	< 5 feet	< 5 feet
Balsam Fir	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
49	4130 - Aspen	Poletimber Well	8.4	34	81-110	N/A	This stand was cut in 1991 as part of Second Lake Sale. Aspen is doing well.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	73	Sapling	5	34
Balsam Fir	3	Pole	4	
White Spruce	5	Pole	4	
Northern White Cedar	2		11	
Sugar Maple	5	Seedling	7	
Paper Birch	3	Pole	4	
Balsam Poplar	8	Pole	4	
White Pine	1		15	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	Variable	Variable
Sugar Maple	Low	10 - 20 feet	10 - 20 feet
Quaking Aspen	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
50	429 - Mixed Upland Conifers	Poletimber Medium	66.6	74	51-80	N/A	Stand of white pine and white spruce. Shallow rocky soils have resulted in a poor quality stand. I am guessing this stand has slowly regenerated from a rocky opening. Scattered patches of cedar in the stand.Some spruce has died and budworm damage is evident.

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	2		9	
Red Oak	2		12	
White Spruce	15		9	
Northern White Cedar	15		14	
Red Maple	2		15	
Paper Birch	11		11	
Balsam Fir	10	Seedling	6	
Tamarack	5	Seedling	8	
Balsam Poplar	3		9	
White Pine	35		14	74

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Variable
Northern White Cedar	Medium	Variable	Variable
Red Pine	Low	5 - 10 feet	5 - 10 feet
White Spruce	High	Variable	Variable
Common Or Ground Juniper	Medium	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
51	429 - Mixed Upland Conifers	Poletimber Medium	6.7	20	1-50	N/A	This is the old Finn Camp opening that is growing in with spruce trees.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	10	Pole	4	
Balsam Fir	25	Pole	4	20
Paper Birch	5	Log	3	
Bigtooth Aspen	20	Seedling	5	20
White Pine	10		18	
White Pine	5	Pole	4	
White Spruce	10	Log	3	
Red Pine	5		22	
Red Pine	10	Pole	4	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
52	4119 - Mixed Northern Hardwoods	Sawtimber Well	14.3	96	111-140	N/A	Primarily poor quality sugar maple with aspen, birch, cedar, and hemlock. There are still a few mature beech within the stand and a lot of beech brush.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	64		11	96
Paper Birch	10		9	
Bigtooth Aspen	10		13	
Beech	2		9	
Red Oak	2		14	
White Spruce	5		12	
Northern White Cedar	5		12	
Hemlock	2		14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable
Maple (spp.)	Medium	5 - 10 feet	5 - 10 feet
Beech	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
53	42380 - Non Pine Upland Conifer, Mixed Deciduous	Sapling Medium	51.8	28	Immature	N/A	Stand was cut in 1996 as part of Second Lake Road Sale. Bedrock is close to the surface a d this area has come back with a more open canopy and a mix of aspen and conifers.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	30	Log	3	
White Spruce	20	Log	3	
Northern White Cedar	5	Seedling	5	
Balsam Fir	35	Log	3	28
White Pine	10	Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	< 5 feet	< 5 feet
Common Or Ground Juniper	Medium	< 5 feet	< 5 feet
Bearberry	Medium	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
54	4130 - Aspen	Sapling Well	12.8	28	Immature	N/A	Stand was cut in 1996 as part of Second Lake Road Sale. Came back fairly nicely after harvest. Seems to be growing slowly for it's age, likely due to poor soil conditions and depth to bedrock.

Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	86	Log	3	28
Balsam Fir	10	Log	2	
White Pine	2	Seedling	5	
Northern White Cedar	2	Seedling	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Sugar Maple	Medium	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
55	6124 - Lowland Spruce-Fir	Poletimber Poor	22.2	50	1-50	N/A	Spruce stand surrounding the wetland (stand 16) that has experienced severe mortality. Many areas submerged in spring snowmelt.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	Seedling	9	
White Spruce	83	Seedling	7	50
Northern White Cedar	15		14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	< 5 feet	< 5 feet
Mixed Sedges/Grasses	High	Not Applicable	Not Applicable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
56	4136 - Aspen, Mixed Conifer	Sawtimber Well	16.7	101	111-140	N/A	Mixed stand with pockets of cedar. Aspen is large and old and starting to decay. Some sugar maple poles on the higher ridges of the stand. Large residual pine left in the overstory.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5		14	
White Pine	12		24	
Sugar Maple	5	Sapling	5	
Red Maple	2		15	
Paper Birch	10		9	
Bigtooth Aspen	25		16	101
Balsam Fir	3	Seedling	8	
White Spruce	10		11	
Northern White Cedar	10		10	96
Quaking Aspen	16		15	
Ironwood	2	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	Variable	Variable
Beech	Trace	< 5 feet	< 5 feet
Sugar Maple	Medium	Variable	Variable
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
57	6115 - Lowland Ash	Sawtimber Poor	9.1	65	141-170	N/A	Much if the ash is dead or dying. Open canopy with Dogwood and grasses underneath.

Canopy Species	% Cover	Size Class	DBH	Age
Green Ash	15		10	
Balsam Poplar	35	Seedling	8	
Black Ash	50		10	65

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	Medium	< 5 feet	< 5 feet
Red Osier Dogwood	High	< 5 feet	< 5 feet
Mixed Grasses	Medium	Not Applicable	Not Applicable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
58	4136 - Aspen, Mixed Conifer	Sapling Well	89.5	12	Immature	N/A	Most of this stand was cut in 2012 with the exception of a few areas that were finished up in 2014. This was part of Rocky Road Aspen. Aspen is coming in very nicely with the only spots lacking regeneration where harvesting took place last winter. Scattered pole size trees throughout the sale. Pine retention scattered throughout the stand. Retention left on rock ledges through the middle of the stand. Scattered patches of conifer retention throughout the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Seedling	8	
Balsam Fir	5	Pole	1	
Quaking Aspen	60	Log	2	12
Ironwood	2	Seedling	6	
Red Oak	2		14	
White Spruce	7	Sapling	5	
Northern White Cedar	7		9	
White Pine	14		13	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
White Pine	Medium	5 - 10 feet	5 - 10 feet
Bearberry	High	< 5 feet	< 5 feet
Northern White Cedar	Low	5 - 10 feet	5 - 10 feet
Red Osier Dogwood	Low	5 - 10 feet	5 - 10 feet
Hazelnut (Beaked)	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
59	6120 - Lowland Cedar	Sawtimber Well	169.0	96	141-170	N/A	Large cedar stand. It is pretty neat how most of this stand is low but there is also some rocky ledges . Some of the higher ground is supporting groves of hardwood. There isn't much growing in the understory but there are some areas of thick spruce/fir.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	19		15	
White Spruce	5		11	
Northern White Cedar	70		10	96
White Pine	1		14	
Balsam Fir	3	Seedling	8	
Red Maple	1		15	
Paper Birch	1		9	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Trace	< 5 feet	< 5 feet
Balsam Fir	Medium	Variable	Variable
Alder	Low	5 - 10 feet	5 - 10 feet
White Spruce	Low	Variable	Variable
Quaking Aspen	Low	Variable	Variable
Red Osier Dogwood	Medium	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
60	4134 - Aspen, Spruce/Fir	Sawtimber Well	26.1	110	81-110	N/A	Paper birch and large spruce have nearly died out of the stand. Large aspen are declining and exhibit shelf fungi. Attempting to core the aspen shows that many are hollow on the inside. Basal area is low, gaps are being filled with balsam fir. Large aspen could not be dated due to the hollow centers; Sugar Maple was aged at 110 years old and I believe that age reflects the state of the aspen and paper birch left in the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	20	Seedling	8	
Quaking Aspen	10		14	
Sugar Maple	30		10	110
Bigtooth Aspen	30		15	110
White Pine	1		30	
White Pine	3		14	
White Spruce	1		11	
Northern White Cedar	5		10	96

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	< 5 feet	< 5 feet
Beech	Low	5 - 10 feet	5 - 10 feet
Sugar Maple	Medium	< 5 feet	< 5 feet
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Striped Maple	Low	< 5 feet	< 5 feet
Ironwood	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
62	6120 - Lowland Cedar	Sawtimber Well	36.4	96	141-170	N/A	Large cedar stand. This area was split from a larger cedar stand due to different conditions within the stand.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5		14	
Balsam Fir	3	Seedling	8	
Red Maple	2		15	
Paper Birch	3		9	
White Spruce	10		11	
Northern White Cedar	62		10	96
Quaking Aspen	15		15	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Trace	< 5 feet	< 5 feet
White Spruce	Low	Variable	Variable
Red Osier Dogwood	Medium	< 5 feet	< 5 feet
Quaking Aspen	Low	Variable	Variable
Alder	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
63	4319 - Mixed Upland Forest	Sawtimber Well	12.6	93	81-110	N/A	North half of 56.Less large aspen than the southern stand. More paper birch, more sapling/pole sugar maple. More pine.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Pole	4	
White Pine	20		20	
White Spruce	5	Seedling	7	
Northern White Cedar	13		14	
Sugar Maple	15	Pole	4	
Paper Birch	15	Seedling	9	
Bigtooth Aspen	27		11	93

Sub-Canopy Species	Density	Avg. Height	Size
Striped Maple	Low	< 5 feet	< 5 feet
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
64	4110 - Sugar Maple Association	Sawtimber Poor	8.1	114	1-50	N/A	The southern regen monitoring area of stand 34. Lots of beech has brush in the opening. Some birch and maple regeneration, but these are the minority. Lots of sugar maple seedlings that are heavily browsed.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	96		15	114
White Spruce	1	Seedling	7	
Northern White Cedar	3		10	

Sub-Canopy Species	Density	Avg. Height	Size
Blackberry/Raspberry	Low	< 5 feet	< 5 feet
Yellow Birch	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	Low	5 - 10 feet	5 - 10 feet
Sugar Maple	Medium	Variable	Variable
White Spruce	Low	< 5 feet	< 5 feet
Beech	High	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
65	4110 - Sugar Maple Association	Sawtimber Well	28.3	73	81-110	N/A	This stand was thinned in 2012 as part of Smurf Hardwoods. This portion of the stand has more pole sized trees. There is a drainage separating this area from the northern portion of the stand. Sale 008-14, beech and ash salvage, cut in 2017. Canopy still has gaps.

Canopy Species	% Cover	Size Class	DBH	Age
White Ash	1		18	
Ironwood	4	Seedling	8	
Beech	2		13	
White Spruce	1	Seedling	9	
Northern White Cedar	1		15	
Hemlock	1		15	
Sugar Maple	88		10	73
Paper Birch	2		10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	5 - 10 feet	5 - 10 feet
White Ash	High	10 - 20 feet	10 - 20 feet
Beech	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
66	4110 - Sugar Maple Association	Sawtimber Well	7.9	86	111-140	N/A	Area of stamnd 34 not included in the salvage cut; north of the stream. Good sugar maple 10-15 ft theoughout.

Canopy Species	% Cover	Size Class	DBH	Age
Beech	2		12	
White Spruce	1		16	
Northern White Cedar	1		20	
Sugar Maple	89		14	86
Bigtooth Aspen	2		18	
Basswood	5		18	

Sub-Canopy Species	Density	Avg. Height	Size
Beech	Low	5 - 10 feet	5 - 10 feet
White Spruce	Low	10 - 20 feet	10 - 20 feet
Sugar Maple	High	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
67	42360 - Upland Cedar	Sawtimber Well	24.2	107	111-140	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Seedling	6	
Quaking Aspen	10		10	
White Pine	7		15	
Northern White Cedar	80		14	107

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet