



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41025

Entry Year 2022

Acreage: 2,476

County Schoolcraft

Management Area: Seney Manistique Swamp

Revision Date: 2020-08-12

Stand Examiner: Tori Irving

Legal Description:

T44N,R16W, Sections 4-7

Identified Planning Goals:

The goals in this compartment include conducting multiple resource management for current and future generations. Forest Health, Recreation, Biodiversity Stewardship, Wildlife and Timber Management are some of the key management components within this compartment.

Soil and topography:

The soils in this compartment are predominantly peat soils associated with the large marsh complexes with scattered subtle sand ridges mixed throughout. The topography is very flat.

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

The compartment is almost entirely State owned. A 200 acre tract in sections 4 and 5 was acquired which locked ownership east of Haymeadow Creek.

Unique Natural Features:

Clinton's bulrush (*Scirpus clintonii*, state special concern) could occur along the North Branch Stutts Creek. In Michigan, this species occurs in intermittent wetlands and seasonally flooded riparian areas. The proposed management in this compartment should not be detrimental to the bulrush population as long as best management practices are followed along the riparian corridor. In addition, red-shouldered hawk (*Buteo lineatus*, state threatened) have been recorded nesting in the vicinity of this compartment and there is potential for this raptor to occur in stand of mixed swamp conifer and swamp hardwood. Wood turtle (*Clemmys insculpta*, state special concern) could occur in and along North Branch Stutts Creek, Bear Slough, West Branch Hickey Creek and Haymeadow Creek.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The whole Hickey Creek system, as well as the Stutts branches until they join in Section 17, are all classified SQCW for native brook trout. Once the Stutts branches join, however, the river is classified as SQWW.

Wildlife Habitat Considerations:

Compartment 25 lies within central Schoolcraft county in the Seney Sand Lake Plain ecological subsubsection and is a part of the Seney-Manistique Swamp Management area with beaver, moose, sharp-tailed grouse, snowshoe hare, and white-tailed deer as featured species. Growing season in this area is generally less than 100 days. The winter extreme low temperature is -46 degrees F and the average annual snowfall is approximately 100 inches.

Presettlement vegetation included marshes and swamps on the extensive lowlands and jack pine, red pine, and big-toothed aspen on the uplands. Wildfire was the prominent natural disturbance for this area, with windthrow and beaver ponding being other factors. Currently, lowland marsh remains the dominant feature in this compartment. Most of the forested area in the western portion of the compartment has been clearcut. Timber types include jack pine, aspen, black spruce, fir, and lowland hardwoods. Forested areas in the eastern portion of the compartment are mature and covered by either swamp conifers or white birch.

The wildlife habitat management objectives for this compartment are to maintain old growth forest in the eastern 2/3's as part of a larger complex that extends to the south and managing for early successional habitat in the western 1/3. Other wildlife priorities include the creation of dense understory's with retention of woody debris in jack pine and lowland types and retaining soft and hard mast producing species in harvested stands. There is one rare plant (*Scirpus clintonii*) within the compartment and several other rare plants are known to exist within a few miles of the compartment as well. Red-

shouldered hawk(s) have been documented within three miles of the compartment boundary. Other wildlife species of interests include gray wolf, bobcat, black-backed woodpecker, marsh wren, great-horned owl, and saw-whet owl.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the glacial drift thickness. The Ordovician Trenton Limestone subcrops below the glacial drift. The Trenton is used for stone/dolomite. The nearest gravel pit is 5 miles to the west. There is limited gravel potential on State lands.

Vehicle Access:

Vehicular access to the compartment is severely limited. There is no access east of Haymeadow Creek. The area between Haymeadow Creek and Stutts Creek has a couple roads, the main road which is the Haymeadow Creek Road is gated quite a ways south of the compartment, and the other roads are very poor two-tracks. There is no access to the area west of Stutts Creek, this area was accessed 10 years ago with a portable bridge.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

There are no recreational facilities within the compartment and opportunities are very limited due to the poor access.

Fire Protection:

Fire response and protection to this area will be extremely challenging due to the lack of access.

Additional Compartment Information:

The following reports from the Inventory are attached:

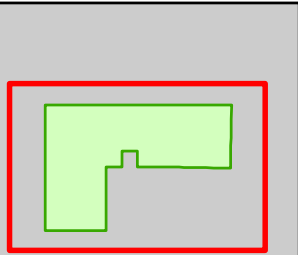
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

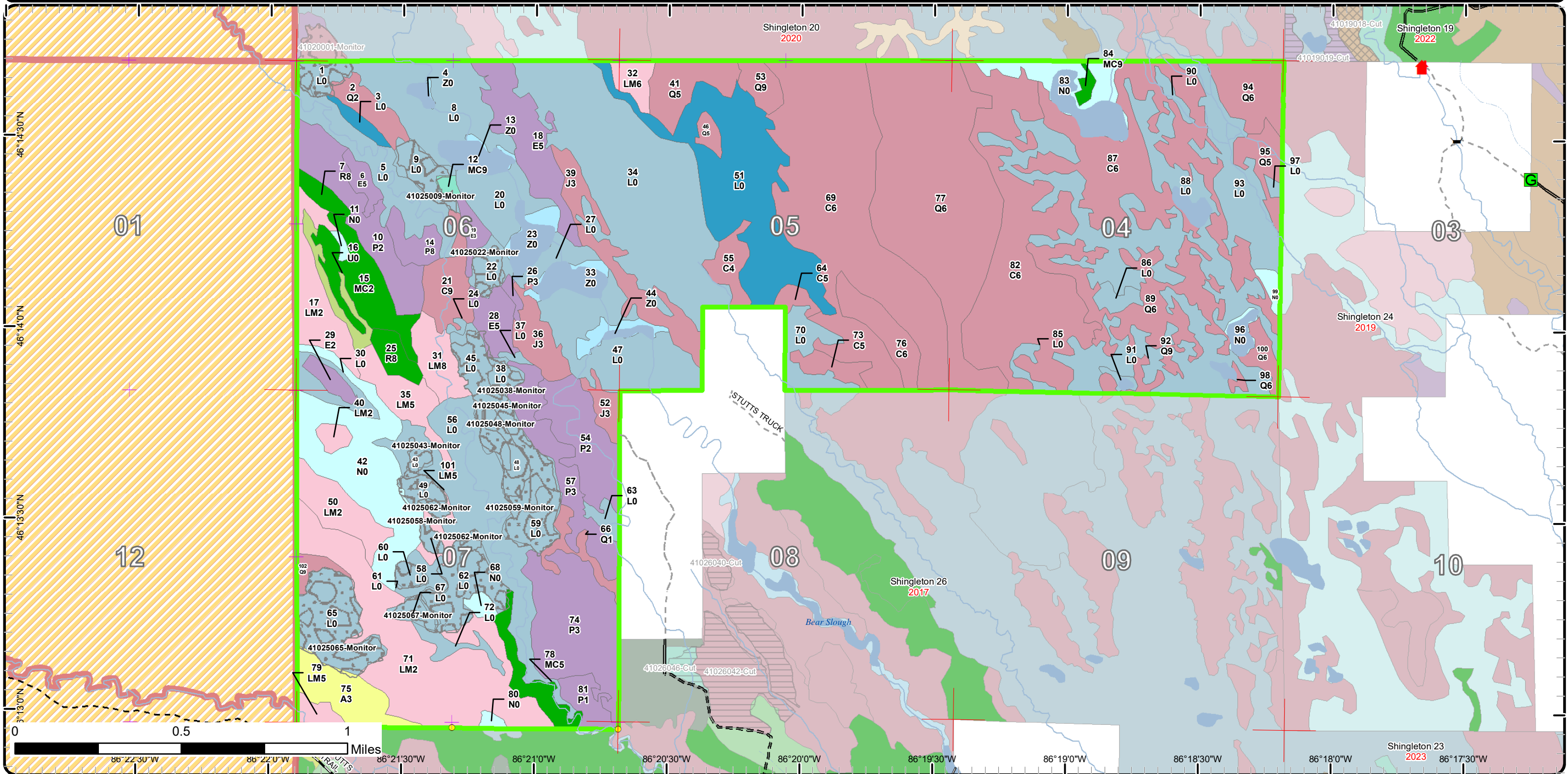
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 25
 T44N, R16W, Sec: 4-7
 County: Schoolcraft
 Unit: Shingleton
 Mgmt Area: Seney Manistique Swamp
 YOE: 2022
 Acres: 2,476 GIS Calculated
 Examiner: Tori Irving
 Map Revised: 8/25/2020
 Map Phase: Web Post

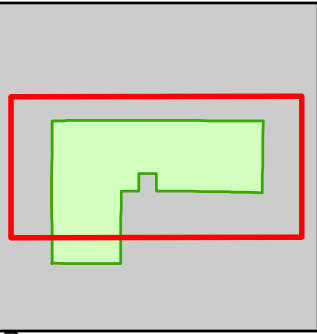


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- ▲ Cabin
- Bridges
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Regeneration Survey
- 413 - Aspen
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

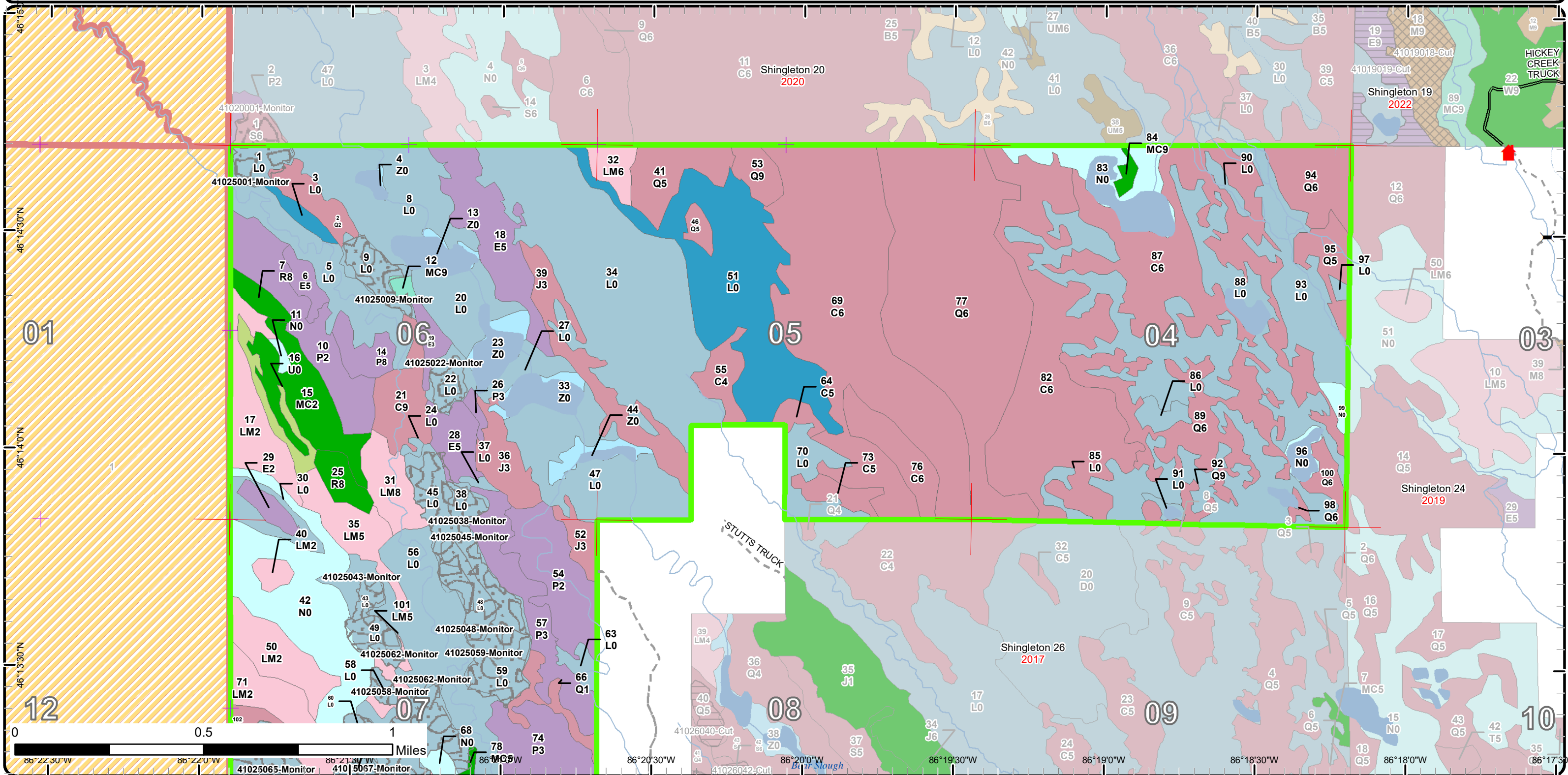


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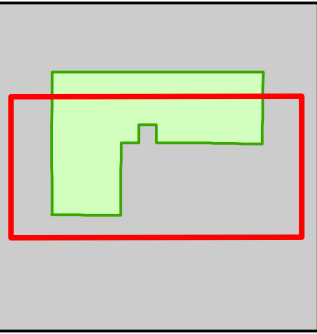


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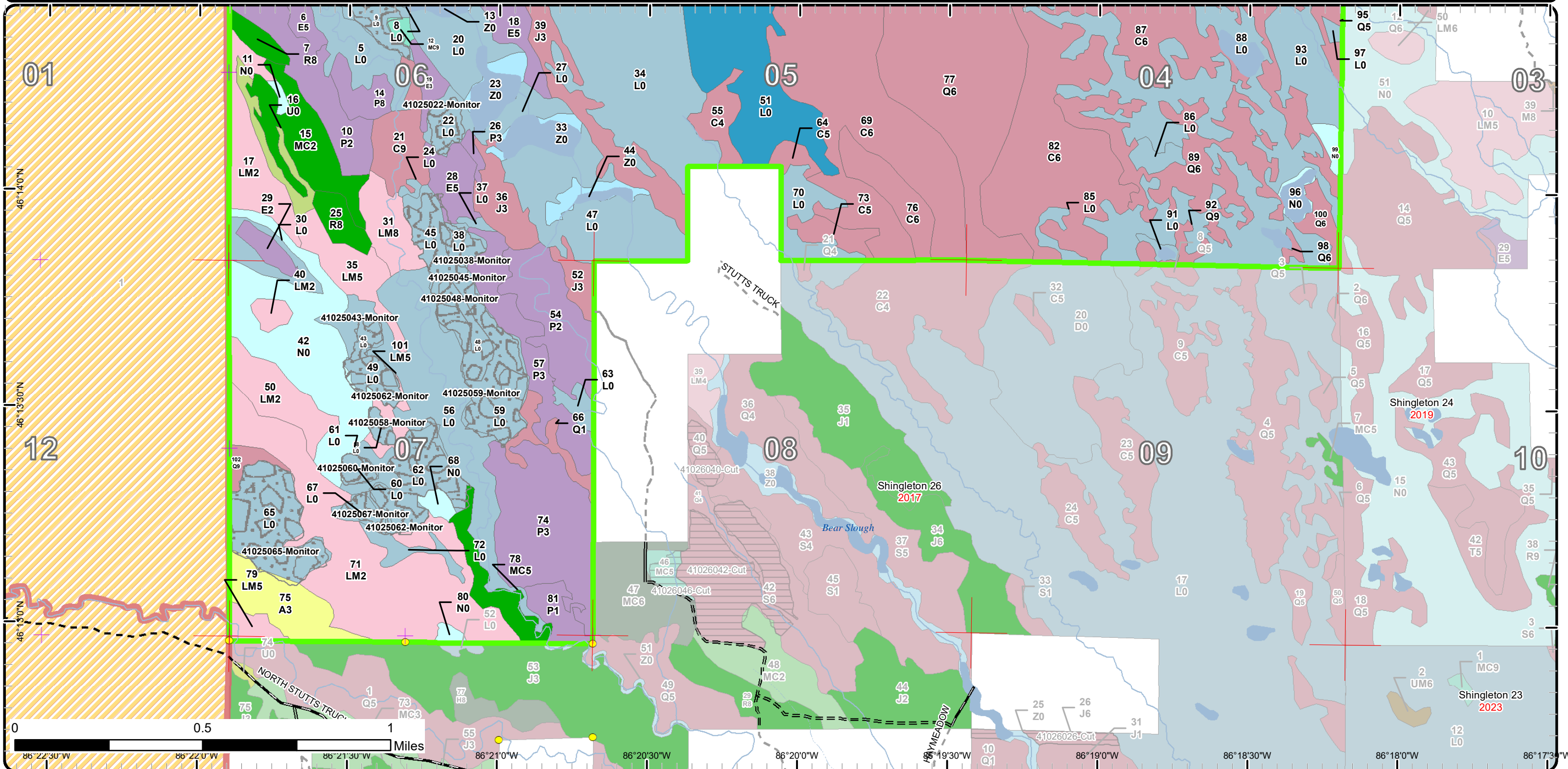


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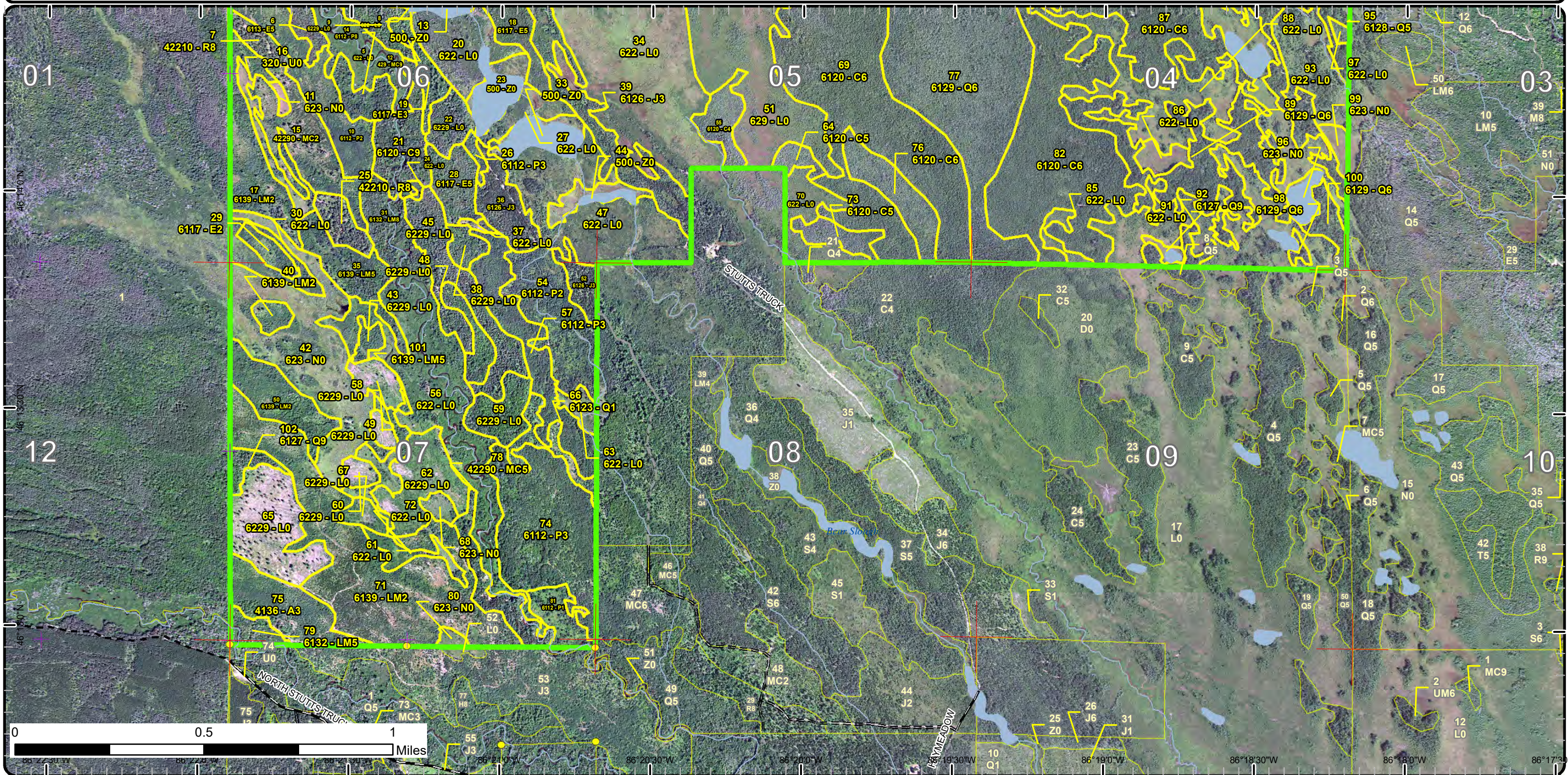


Stand Boundary Map

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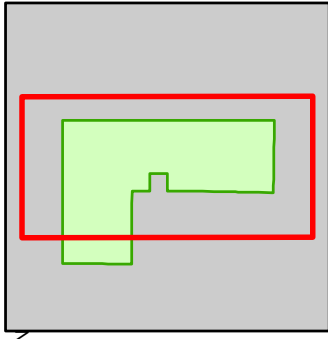


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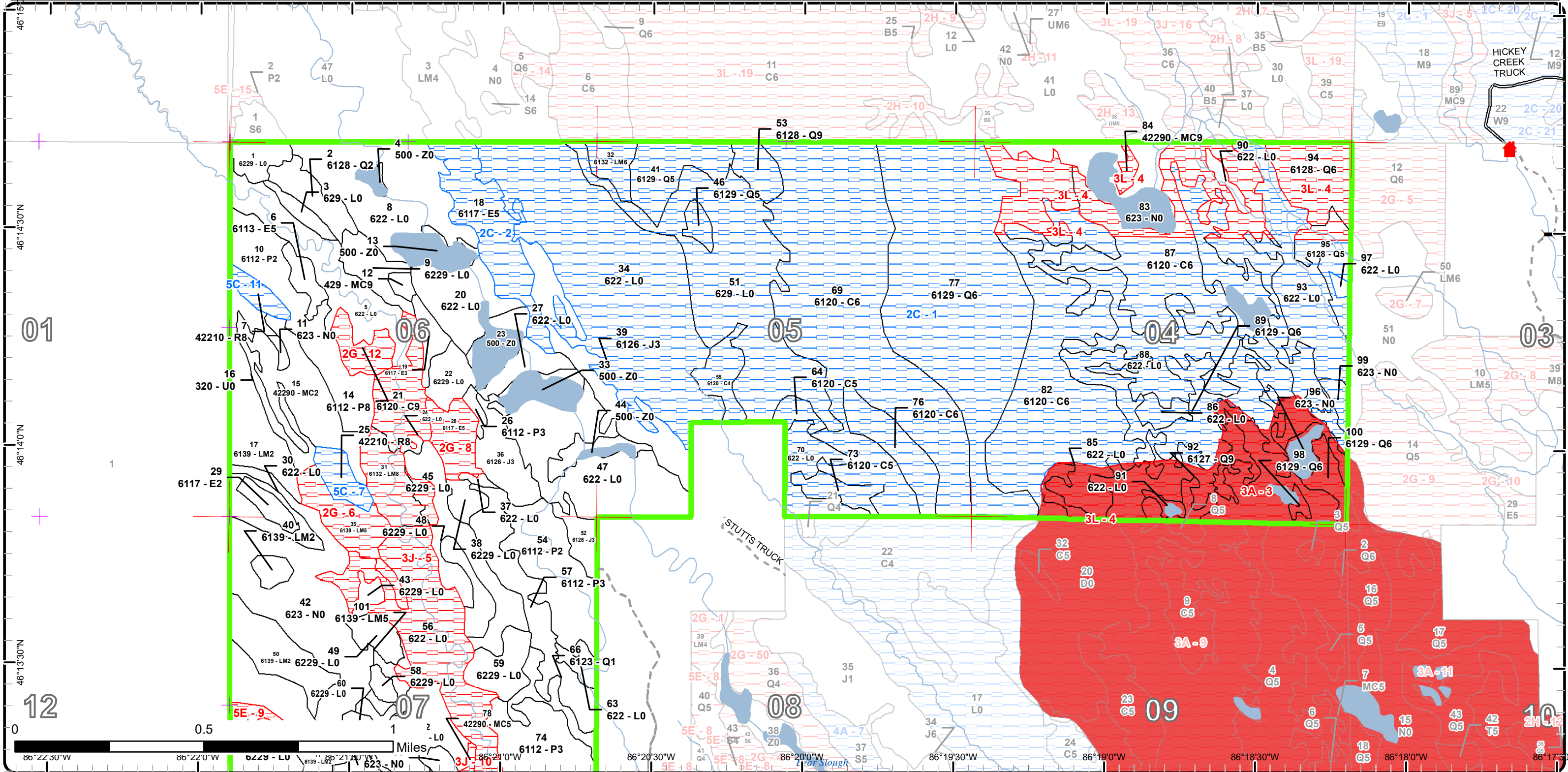


Special Conservation Areas

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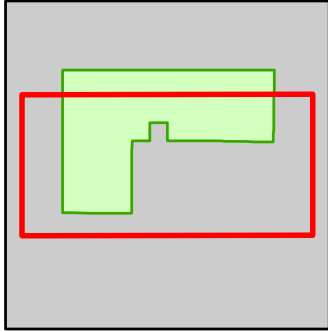


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams

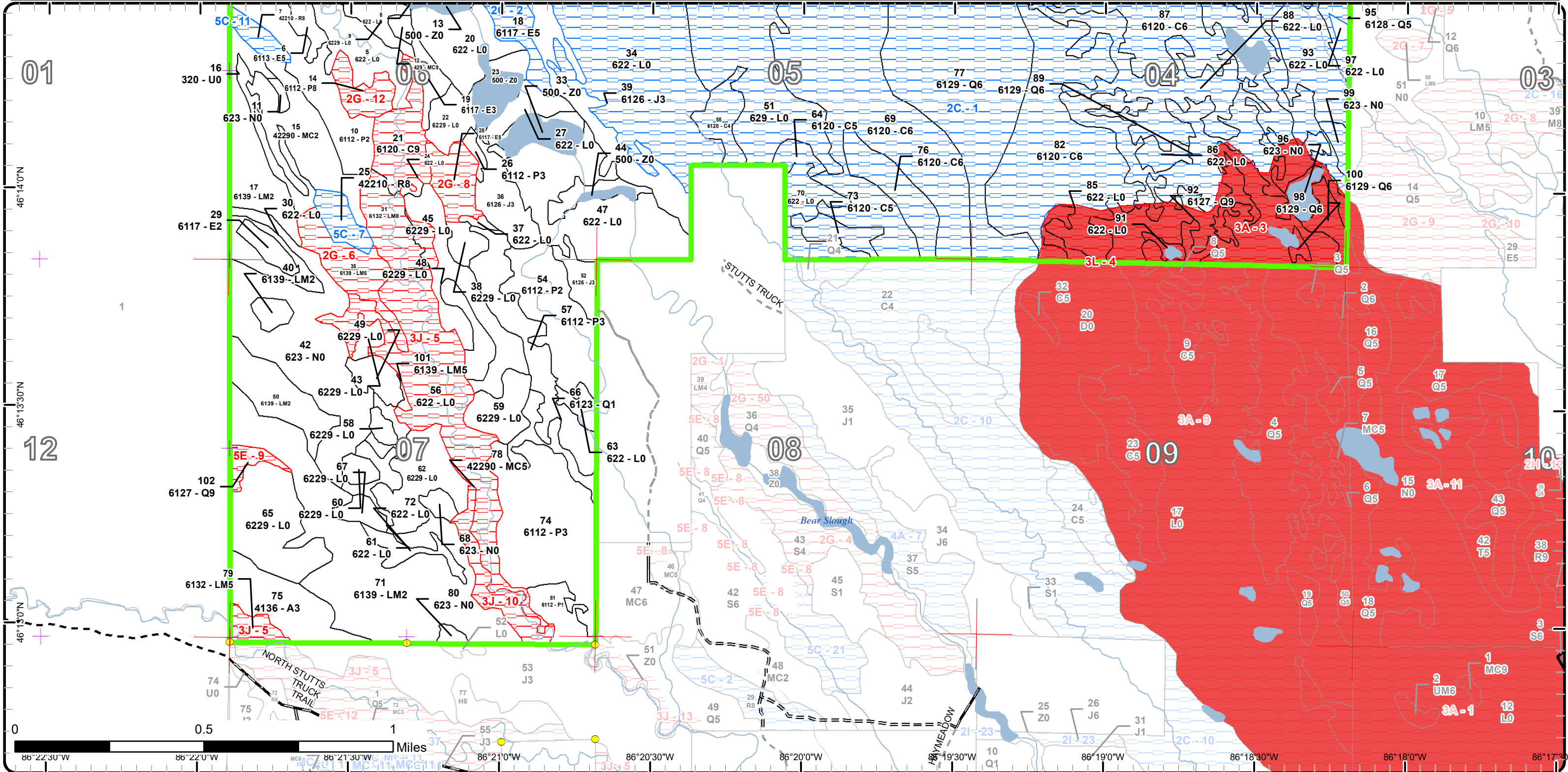


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Cedar	0	0	0	0	0	0	0	0	0	0	97	12	173	0	0	0	171	0	453
Jack Pine	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	54
Lowland Aspen/Balsam Poplar	0	0	38	0	139	0	0	0	10	0	0	0	0	0	0	0	0	0	187
Lowland Conifers	0	0	0	0	21	0	0	0	5	14	54	44	30	157	0	0	0	0	325
Lowland Deciduous	0	0	0	0	6	0	6	0	36	14	0	0	0	0	0	0	0	6	68
Lowland Mixed Forest	0	0	4	101	0	0	0	0	5	20	0	15	17	0	0	0	0	49	211
Lowland Shrub	922	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	922
Marsh	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	113
Natural Mixed Pines	0	0	31	0	0	0	0	0	15	0	0	3	0	0	0	0	0	0	49
Red Pine	0	0	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	15
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
Upland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Water	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
Total	1086	0	73	126	220	0	6	0	71	63	151	74	220	159	0	0	171	55	2475



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 25
Total Compartment Acres: 2,476

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

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	0	157	0	0	157
Total	0	0	0	0	0	0	157	0	0	157



Stand Name	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:

1	41025001-Monitor	8.4	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Count regeneration during the next inventory cycle. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of species currently found on-site will be considered acceptable. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2029</p>											
9	41025009-Monitor	10.3	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Count regeneration during the next inventory cycle. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of species currently found on-site will be considered acceptable. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2029</p>											
22	41025022-Monitor	6.5	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Count regeneration during the next inventory cycle. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of species currently found on-site will be considered acceptable. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2029</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
38 41025038-Monitor	4.7	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Count regeneration during the next inventory cycle. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of species currently found on-site will be considered acceptable. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2029</p>										
43 41025043-Monitor	3.5	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6121 - Tamarack	Even-Aged	No
<p><u>Prescription</u> Count regeneration and monitor for success. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of species currently found on-site. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
45 41025045-Monitor	28.8	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Count regeneration during the next inventory cycle. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of species currently found on-site will be considered acceptable. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2029</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
48 41025048-Monitor	8.6	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No
<p><u>Prescription</u> Count regeneration during the next inventory cycle. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of species currently found on-site will be considered acceptable. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2029</p>										
49 41025049-Monitor	5.8	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Count regeneration and monitor for success. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of species currently found on-site. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										
58 41025058-Monitor	3.0	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6125 - Lowland Black Spruce, Jack Pine	Even-Aged	No
<p><u>Prescription</u> Count regeneration and monitor for success. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of species currently found on-site. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										



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59	41025059-Monitor	13.1	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Count regeneration during the next inventory cycle.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of species currently found on-site will be considered acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2029</p>											
60	41025060-Monitor	3.7	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Count regeneration and monitor for success.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of species currently found on-site.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
62	41025062-Monitor	26.4	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6139 - Mixed Lowland Forest	Even-Aged	No
<p><u>Prescription</u> Count regeneration and monitor for success.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of species currently found on-site.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
65	41025065-Monitor	33.9	6229 - Mixed lowland shrub	Nonstocked	0	Unspec ified	Monitoring	Natural Regen (Re-Inventory)	6127 - Lowland Pine	Even-Aged	No
<p><u>Prescription</u> Count regeneration and monitor for success.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A mix of species currently found on-site.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
67 41025067-Monitor	4.7	6229 - Mixed lowland shrub	Nonstocked	0	Unspecified	Monitoring	Natural Regen (Re-Inventory)	6119 - Mixed Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Count regeneration and monitor for success. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A mix of species currently found on-site. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: 161.4

Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 25

Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions								
		With Condition	Not Available		2C	5C	2G	3A	3J	3L	5E		
25	25	0	0	Aspen									
452	0	363	90	Cedar	363			12	20	58			
54	54	0	0	Jack Pine									
187	176	0	10	Lowland Aspen/Balsam Poplar			10						
326	21	245	59	Lowland Conifers	245			26		29	5		
68	18	36	14	Lowland Deciduous	36		14						
211	160	9	43	Lowland Mixed Forest	9		19		23				
922	387	399	137	Lowland Shrub	399			62	75				
113	104	4	6	Marsh	4			6					
49	31	0	17	Natural Mixed Pines					15	3			
15	0	15	0	Red Pine		15							
2	2	0	0	Upland Conifers									
9	9	0	0	Upland Shrub									
42	42	0	0	Water									
2,476	1,031	1,069	376	Total Forested Acres	1,054	15	43	105	133	89	5		
	42%	43%	15%	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	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	1,018	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 25

Year of Entry: 2022

2	Available	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3A: Conservation Values incompatible with harvest at this time	105	Unspecified	Unspecified	Unspecified	Unspecified
Comments: ERA							
4	Unavailable	3L: Other wildlife concerns	89	Unspecified	Unspecified	Unspecified	Unspecified
Comments: purchased land cedar							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	118	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit

Tori Irving : Examiner

Compartment: 25

Year of Entry: 2022

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	6229 - Mixed lowland shrub	Nonstocked	8.2	0	Unspecified	6124 - Lowland Spruce-Fir	[10/3/18 TI] Stand was cut as part of Pieces O'Nomad Sale #41-013-12-01. TCR Date 5/29/18.
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2	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Medium	12.1	34	Unspecified	N/A	Stand was cut in the mid 80's under the Bolitho Sale, stand has some holes in it due to lower ground.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	3		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Quaking Aspen	33	Sapling/Pole	4	34	Pin Cherry	Low	< 5 feet	Tall Shrub
Black Spruce	18	Sapling	2		Willow spp.	Low	< 5 feet	Tall Shrub
Tamarack	24	Sapling	3					
White Pine	5	Sapling	2					
Jack Pine	15	Sapling/Pole	4					

3	629 - Mixed non-forested wetland	Nonstocked	4.7		Unspecified	No	
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4	500 - Water	Nonstocked	1.1		Unspecified	No	
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5	622 - Lowland Shrub	Nonstocked	35.8		Unspecified	No	
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6	6113 - Lowland Maple	Poletimber Medium	6.3	59	Unspecified	N/A	Low quality stand, low ground small diameter and height. Some inclusions of black spruce.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	60	Pole	6	59	Red Maple	High	< 5 feet	Sapling
Quaking Aspen	15	Pole	8		Balsam Fir	Medium	< 5 feet	Sapling
Black Spruce	2	Pole	7		Black Spruce	Low	< 5 feet	Sapling
Northern White Cedar	19	Pole	9		White Pine	Low	< 5 feet	Sapling
White Pine	4	Log/XLog	15		Tag Alder	High	5 - 10 feet	Tall Shrub

7	42210 - Natural Red Pine	Sawtimber Medium	6.2	85	81-110	N/A	Stand was thinned in 2001. Good red pine regeneration on the road.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole/XLog	13		Red Maple	Low	5 - 10 feet	Sapling
Red Pine	95	Log/Pole/XLog	14	85	Quaking Aspen	Low	5 - 10 feet	Sapling
					Black Spruce	High	Variable	Sapling
					White Pine	Low	< 5 feet	Sapling
					Red Pine	Medium	< 5 feet	Sapling
					Jack Pine	Low	< 5 feet	Sapling

8	622 - Lowland Shrub	Nonstocked	54.4		Unspecified	No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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9	6229 - Mixed lowland shrub	Nonstocked	11.9	0	Unspecified	6117 - Lowland Deciduous, Mixed Coniferous	[10/3/18 TI] Stand was cut as part of Pieces O'Nomad Sale #41-013-12-01. TCR Date 5/29/18. Stand is a mix of species and high and low ground. Stand is mostly low due to the adjacent stands.
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10	6112 - Lowland Aspen	Sapling Medium	37.9	19	Unspecified	N/A	Stand was not accessible during field inventory and stand data was taken from 2010.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling	1		Tag Alder	High	Variable	Tall Shrub
Quaking Aspen	70	Sapling	1	19	Nannyberry	Low	< 5 feet	Tall Shrub
Balsam Fir	3	Sapling	1		Willow spp.	Low	< 5 feet	Tall Shrub
Black Spruce	2	Sapling	1					
Jack Pine	10	Sapling	1					

Stand was cut in winter of 2001, part of InterStutts Sale. Additionally, the stand had some TSI work done during winter months.

11	623 - Emergent Wetland	Nonstocked	1.5		Unspecified	No	
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12	429 - Mixed Upland Conifers	Sawtimber Well	2.4	125	81-110	N/A	Stand is dominated by hemlock but has some scattered maple and white birch.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	35	Log/XLog/Pole	12		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	3	Log	10		Beech	Low	5 - 10 feet	Sapling
White Pine	5	XLog/Log	16		Balsam Fir	Medium	Variable	Sapling
Hemlock	57	Log/XLog	14	125	Black Spruce	Low	< 5 feet	Sapling

13	500 - Water	Nonstocked	8.9		Unspecified	No	
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14	6112 - Lowland Aspen	Sawtimber Medium	10.3	78	Unspecified	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Log/Pole	10	78	Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	5	Pole	8		Quaking Aspen	Medium	5 - 10 feet	Sapling
Quaking Aspen	40	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Balsam Fir	6	Pole	7		Tag Alder	High	5 - 10 feet	Tall Shrub
Black Spruce	2	Pole	7		Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	7	Log	12		Willow spp.	Medium	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15	42290 - Natural Mixed Pine	Sapling Medium	31.3	19	51-80	N/A	Stand was not accessible during field inventory and stand data was taken from 2010.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Sapling	1		Tag Alder	Low	< 5 feet	Tall Shrub
Quaking Aspen	12	Sapling	1		Pin Cherry	Low	< 5 feet	Tall Shrub
Balsam Fir	2	Sapling	1					
Black Spruce	17	Sapling	1					
Tamarack	2	Sapling	1					
White Pine	2	Sapling	1					
White Pine	2	Log/XLog	15					
Red Pine	3	Sapling	1					
Red Pine	8	Log/XLog	15					
Jack Pine	50	Sapling	1	19				

Stand was cut in 2001, part of the Inter Stutts Sale. current stand has scattered red and white pine logs which were left for seed. The stand is mostly upland with a few low lying areas, there is a small aspen clone on south end. Jack pine regeneration is pretty good for not being scarified.

16	320 - Upland Shrub	Nonstocked	9.4		Unspecified	No	Stand was not accessible during field inventory and stand data was taken from 2010.
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17	6139 - Mixed Lowland Forest	Sapling Medium	27.6	19	Unspecified	N/A	Stand was not accessible during field inventory. Stand data was taken in 2010.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Sapling	5	19	Tag Alder	Medium	< 5 feet	Tall Shrub
Quaking Aspen	22	Sapling	1					
Black Spruce	15	Sapling/Pole	4					
Tamarack	3	Sapling/Pole	4					
White Pine	4	Sapling	1					
Red Pine	2	Sapling	1					
Red Pine	9	Log/XLog	14					
Jack Pine	20	Sapling	1					

Stand was cut through in 2001, part of Inter Stutts Sale. There is some residual pine logs on the south end and scattered red maple, tamarack along edges. Regeneration is quite diverse.

18	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	35.8	78	Unspecified	N/A	Many pockets of L due to the low wet ground.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	40	Pole/Log/Sap	9	78	Balsam Fir	High	Variable	Sapling
Paper Birch	10	Pole/Sapling	5		Black Spruce	Low	< 5 feet	Sapling
Quaking Aspen	3	Pole/Sap/Log	7		Tag Alder	High	Variable	Tall Shrub
Balsam Fir	7	Pole/Sapling	6					
Black Spruce	15	Pole/Sapling	7					
Northern White Cedar	3	Pole	8					
Tamarack	10	Pole/Sapling	7					
White Pine	3	XLog/Log	16					
Black Ash	9	Sapling/Pole	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19 6117 - Lowland Deciduous, Mixed Coniferous Sapling Well 6.3 34 Unspecified N/A

Stand was cut in the mid 80's with the Bolitho sale. The northeast side has a light overstory of red and white pine which occurs on a subtle ridge. In the southern and western parts of the stand, the ground gets lower and the pine subsides.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	22	Sapling	3		Tag Alder	Low	5 - 10 feet	Tall Shrub
Paper Birch	10	Sapling	2		Pin Cherry	Low	< 5 feet	Tall Shrub
Quaking Aspen	33	Sapling	3	34	Willow spp.	Low	< 5 feet	Tall Shrub
Black Spruce	9	Sapling	2					
White Pine	12	Log/XLog/Pole	14					
Red Pine	10	XLog/Log	18					

20 622 - Lowland Shrub Nonstocked 24.3 Unspecified No

21 6120 - Lowland Cedar Sawtimber Well 20.2 115 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole/Log	9		Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	10	Pole/Log	9		Balsam Fir	Medium	Variable	Sapling
White Spruce	5	Pole	7		Black Spruce	Medium	Variable	Sapling
Black Spruce	5	Pole	7		White Pine	Low	< 5 feet	Sapling
Northern White Cedar	50	Log/Pole	10	115	Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	20	Log/XLog	16					

22 6229 - Mixed lowland shrub Nonstocked 9.7 0 Unspecified 6128 - Lowland Coniferous, Mixed Deciduous [10/3/18 TI] Stand was cut as part of Pieces O'Nomad Sale #41-013-12-01. TCR Date 5/29/18.

23 500 - Water Nonstocked 12.5 Unspecified No

24 622 - Lowland Shrub Nonstocked 1.2 Unspecified No

25 42210 - Natural Red Pine Sawtimber Medium 8.8 85 111-140 N/A Nice natural red pine stand which was thinned in 2001, stand is nearing maturity but access is terrible.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log/Pole/XLog	13		Red Maple	Medium	5 - 10 feet	Sapling
Red Pine	95	Log/Pole/XLog	13	85	Quaking Aspen	Low	5 - 10 feet	Sapling
					Balsam Fir	Low	Variable	Sapling
					Black Spruce	High	Variable	Sapling
					Tamarack	Low	< 5 feet	Sapling
					White Pine	Low	< 5 feet	Sapling
					Red Pine	Low	< 5 feet	Sapling
					Jack Pine	Low	< 5 feet	Sapling
					Tag Alder	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
26	6112 - Lowland Aspen	Sapling Well	2.2	34	Unspecified	N/A																																																							
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27	622 - Lowland Shrub	Nonstocked	9.1		Unspecified	No																																																							
28	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	13.6	87	Unspecified	N/A	Stand is poor stocking and quite wet with sporadic cedar throughout. Some of the edges may have been picked through with the adjacent sale from the 80's.																																																						
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31	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	16.8	115	Unspecified	N/A	Stand is a riparian stand for Stutts Creek, the stand has many low drains through stand.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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32 6132 - Mixed Lowland Forest with Cedar Poletimber Well 8.7 108 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Log/Sap	8		Balsam Fir	Low	Variable	Sapling
Paper Birch	4	Sapling/Pole	5		Tag Alder	Full	5 - 10 feet	Tall Shrub
Balsam Fir	4	Sapling/Pole	5					
Northern White Cedar	30	Pole	9	108				
Tamarack	10	Pole	8					
Black Ash	27	Pole/Sapling	5					

33 500 - Water Nonstocked 11.4 Unspecified No

34 622 - Lowland Shrub Nonstocked 146.4 Unspecified No

35 6139 - Mixed Lowland Forest Poletimber Medium 19.5 89 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole	8	89	Red Maple	Medium	5 - 10 feet	Sapling
Quaking Aspen	25	Pole/Log	9		Balsam Fir	Low	Variable	Sapling
Black Spruce	10	Pole	7		Black Spruce	Low	Variable	Sapling
Northern White Cedar	5	Pole/Log	9		Tamarack	Low	< 5 feet	Sapling
Tamarack	20	Pole/Log	9		Tag Alder	High	5 - 10 feet	Tall Shrub
Red Pine	10	Log/XLog/Pole	15		Nannyberry	Low	Variable	Tall Shrub
Jack Pine	5	Pole	10		Willow spp.	Low	< 5 feet	Tall Shrub

Stand is low stocking and quite low ground. The edges may have been picked at in 2001 InterStutts Sale. Stand is mature with lots of dead timber. Many drainages through the stand.

36 6126 - Lowland Jack Pine Sapling Well 16.3 34 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	4	Sapling	2		Tag Alder	Low	5 - 10 feet	Tall Shrub
Quaking Aspen	10	Sapling/Pole	4		Pin Cherry	Low	< 5 feet	Tall Shrub
Balsam Fir	2	Sapling	3		Willow spp.	Low	< 5 feet	Tall Shrub
Black Spruce	6	Sapling	2					
White Pine	3	Sapling	2					
Red Pine	2	Sapling/Pole	4					
Jack Pine	73	Sapling/Pole	4	34				

Stand is a mixture of high and low ground, mainly low. Stand was cut under the Bolitho Contract in the mid 80's.

37 622 - Lowland Shrub Nonstocked 1.3 Unspecified No

38 6229 - Mixed lowland shrub Nonstocked 5.4 0 Unspecified 6117 - Lowland Deciduous, Mixed Coniferous [10/3/18 TI] Stand was cut as part of Pieces O'Nomad Sale #41-013-12-01. TCR Date 5/29/18.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
39	6126 - Lowland Jack Pine	Sapling Well	30.1	33	Unspecified	N/A																																																			
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Sub-Canopy Species	Density	Avg. Height	Size																																																						
Tag Alder	Medium	< 5 feet	Tall Shrub																																																						
40	6139 - Mixed Lowland Forest	Sapling Medium	4.4	19	Unspecified	N/A	Small island that was harvested through in 2001, part of InterStutts sale. Some residual red maple, black spruce, and tamarack are all present as well.																																																		
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Sub-Canopy Species	Density	Avg. Height	Size																																																						
Tag Alder	High	5 - 10 feet	Tall Shrub																																																						
41	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	21.6	112	Unspecified	N/A	Two aged old cedar poor quality Tamarack is nearly dead. West side of this stand is lower productivity, stunted trees.																																																		
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Northern White Cedar	Medium	< 5 feet	Sapling																																																						
Black Ash	High	5 - 10 feet	Tall Shrub																																																						
42	623 - Emergent Wetland	Nonstocked	65.8		Unspecified	No																																																			
43	6229 - Mixed lowland shrub	Nonstocked	3.7	0	Unspecified	6121 - Tamarack	[10/29/2015 TI] Stand was cut as part of Sasquatch Thornapple Sale # 41-014-12-01. TCR date 7/22/2015.																																																		
44	500 - Water	Nonstocked	7.7		Unspecified	No																																																			
45	6229 - Mixed lowland shrub	Nonstocked	31.7	0	Unspecified	6124 - Lowland Spruce-Fir	[10/3/18 TI] Stand was cut as part of Pieces O'Nomad Sale #41-013-12-01. TCR Date 5/29/18.																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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46 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 4.2 107 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	12	Pole	8		Balsam Fir	Medium	Variable	Sapling
Paper Birch	5	Pole/Log	9		Black Spruce	High	Variable	Sapling
Black Spruce	20	Pole	7		White Pine	Low	5 - 10 feet	Sapling
Northern White Cedar	45	Pole	8	107	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Tamarack	6	Pole	6					
White Pine	12	XLog/Log	16					

47 622 - Lowland Shrub Nonstocked 56.5 Unspecified No

48 6229 - Mixed lowland shrub Nonstocked 8.5 0 Unspecified 6117 - Lowland Deciduous, Mixed Coniferous [10/3/18 TI] Stand was cut as part of Pieces O'Nomad Sale #41-013-12-01. TCR Date 5/29/18.

49 6229 - Mixed lowland shrub Nonstocked 8.0 0 Unspecified 6129 - Mixed Coniferous Lowland Forest {10/29/2015 TI} Stand was cut as part of Sasquatch Thornapple Sale # 41-014-12-01. TCR date 7/22/2015.

50 6139 - Mixed Lowland Forest Sapling Medium 21.4 19 Unspecified N/A Stand was not accessible during field inventory. Stand data was taken from 2010.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	25	Pole/Sapling	5		Tag Alder	High	5 - 10 feet	Tall Shrub
Quaking Aspen	30	Sapling	1	19	Nannyberry	Low	< 5 feet	Tall Shrub
Black Spruce	15	Sapling/Pole	3					
Northern White Cedar	10	Log/Pole	10					
White Pine	15	Sapling	1					
Hemlock	5	Log	12					

Stand was cut through in 2001 with the Inter Stutts sale.

51 629 - Mixed non-forested wetland Nonstocked 95.2 Unspecified No

52 6126 - Lowland Jack Pine Sapling Well 7.7 34 Unspecified N/A Stand is a mix of high and low ground but more low ground. Cut under the Bolitho Sale in the winter of 85-86.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	4	Sapling	2		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	2	Sapling	2		Willow spp.	Low	< 5 feet	Tall Shrub
Quaking Aspen	8	Sapling	3					
Black Spruce	10	Sapling	2					
Tamarack	3	Pole	6					
White Pine	2	Sapling	1					
Red Pine	2	Sapling	1					
Jack Pine	69	Sapling/Pole	4	34				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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53 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 9.4 86 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	28	Log/Pole	10	86	Balsam Fir	Full	Variable	Sapling
Paper Birch	10	Log/Pole	10		Black Spruce	Low	< 5 feet	Sapling
Balsam Fir	9	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	8	Pole	8					
Northern White Cedar	18	Log/Pole	10					
White Pine	25	XLog	20					
Red Pine	2	XLog/Log	16					

54 6112 - Lowland Aspen Sapling Medium 34.2 34 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Sapling	3		Tag Alder	High	5 - 10 feet	Tall Shrub
Paper Birch	3	Sapling	2		Nannyberry	Low	< 5 feet	Tall Shrub
Quaking Aspen	65	Sapling/Pole	4	34	Willow spp.	Medium	< 5 feet	Tall Shrub
Balsam Fir	7	Sapling	3					
Black Spruce	10	Sapling	2					
Tamarack	3	Sapling	3					
White Pine	2	Sapling	2					
Red Pine	2	Sapling	2					
Jack Pine	3	Sapling	2					

55 6120 - Lowland Cedar Poletimber Poor 11.5 105 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	10	Pole	6		Tag Alder	High	Variable	Tall Shrub
Northern White Cedar	88	Pole/Sapling	6	105				
White Pine	2	Log	11					

Stand is essentially the Headwaters to Haymeadow Creek. Stand is mostly dead due to age, water and overall poor site quality.

56 622 - Lowland Shrub Nonstocked 71.7 Unspecified No

57 6112 - Lowland Aspen Sapling Well 31.3 36 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Pole/Sapling	4		Red Maple	Medium	< 5 feet	Sapling
Quaking Aspen	70	Sapling/Pole	3	36	Balsam Fir	Medium	< 5 feet	Sapling
Balsam Fir	20	Sapling/Pole	3		Black Spruce	Low	< 5 feet	Sapling
Black Spruce	5	Sapling	1		Nannyberry	Low	< 5 feet	Tall Shrub
					Willow spp.	Low	< 5 feet	Tall Shrub

Stand was inaccessible during field inventory. Stand data from 2010 was used.

Stand is regenerating nicely, cut in the mid 80's as part of the Bolitho Sale.

58 6229 - Mixed lowland shrub Nonstocked 3.0 0 Unspecified 612 - Lowland Coniferous Forest {10/29/2015 T1} Stand was cut as part of Sasquatch Thornapple Sale # 41-014-12-01. TCR date 7/22/2015.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																						
59	6229 - Mixed lowland shrub	Nonstocked	13.5	0	Unspecified	6128 - Lowland Coniferous, Mixed Deciduous	[10/3/18 TI] Stand was cut as part of Pieces O'Nomad Sale #41-013-12-01. TCR Date 5/29/18.																																						
60	6229 - Mixed lowland shrub	Nonstocked	3.9	0	Unspecified	6122 - Black Spruce	{10/29/2015 TI} Stand was cut as part of Sasquatch Thornapple Sale # 41-014-12-01. TCR date 7/22/2015.																																						
61	622 - Lowland Shrub	Nonstocked	6.7		Unspecified	No																																							
62	6229 - Mixed lowland shrub	Nonstocked	23.7	0	Unspecified	6139 - Mixed Lowland Forest	{10/29/2015 TI} Stand was cut as part of Sasquatch Thornapple Sale # 41-014-12-01. TCR date 7/22/2015.																																						
63	622 - Lowland Shrub	Nonstocked	4.8		Unspecified	No																																							
64	6120 - Lowland Cedar	Poletimber Medium	4.8	119	Unspecified	N/A	Stand was not accessible during field inventory. Data from 2010 was used.																																						
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65	6229 - Mixed lowland shrub	Nonstocked	33.6	0	Unspecified	6127 - Lowland Pine	{10/29/2015 TI} Stand was cut as part of Sasquatch Thornapple Sale # 41-014-12-01. TCR date 7/22/2015.																																						
66	6123 - Lowland Fir	Sapling Poor	9.3	34	Unspecified	N/A	Stand is slightly higher ground but still seasonally flooded, cut through in the mid 80's with the Bolitho Sale. Stand was not accessible during field inventory. Data was taken in 2010.																																						
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67	6229 - Mixed lowland shrub	Nonstocked	5.0	0	Unspecified	6119 - Mixed Lowland Deciduous Forest	{10/29/2015 TI} Stand was cut as part of Sasquatch Thornapple Sale # 41-014-12-01. TCR date 7/22/2015.																																						
68	623 - Emergent Wetland	Nonstocked	3.4		Unspecified	No																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
69	6120 - Lowland Cedar	Poletimber Well	170.7	152	Unspecified	N/A	Stand was not accessible during field inventory. Data was taken in 2010.																																																										
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70	622 - Lowland Shrub	Nonstocked	16.6		Unspecified	No																																																											
71	6139 - Mixed Lowland Forest	Sapling Medium	101.3	20	Unspecified	N/A	Stand was not accessible during field inventory. Stand data was taken from 2010.																																																										
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74	6112 - Lowland Aspen	Sapling Well	60.0	34	Unspecified	N/A	Stand was not accessible during field inventory. Data was taken in 2010.																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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75	4136 - Aspen, Mixed Conifer	Sapling Well	25.3	21	Unspecified	N/A	Stand was not accessible during field inventory. Data was taken in 2010.																																																								
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76	6120 - Lowland Cedar	Poletimber Well	18.8	117	Unspecified	N/A	Stand was not accessible during field inventory. Data was taken in 2010.																																							
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77	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	156.9	121	Unspecified	N/A	Stand was not accessible during field inventory. Data was taken in 2010. Poor quality stand, soils are full of hummocks.																																							
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78	42290 - Natural Mixed Pine	Poletimber Medium	14.6	75	111-140	N/A	Stand was not accessible during field inventory. Data was taken in 2010.																																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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79 6132 - Mixed Lowland Forest with Cedar Poletimber Medium 6.4 100 Unspecified N/A Stand was not accessible during field inventory. Data was taken in 2010. Stand is part of the river corridor and is quite often flooded.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	9		Red Maple	Medium	5 - 10 feet	Sapling
Paper Birch	10	Pole/Log	9		Black Spruce	Medium	Variable	Sapling
Black Spruce	15	Pole	8		Black Ash	Low	10 - 20 feet	Sapling
Northern White Cedar	30	Log/Pole	10	100	Tag Alder	High	5 - 10 feet	Tall Shrub
White Pine	5	Log/XLog	15		Willow spp.	Low	< 5 feet	Tall Shrub
Hemlock	2	Log/Pole	12					
Black Ash	18	Pole	8					

80 623 - Emergent Wetland Nonstocked 2.0 Unspecified No

81 6112 - Lowland Aspen Sapling Poor 10.7 34 Unspecified N/A Stand was not accessible during field inventory. Data was taken in 2010. Stand is part of the river corridor and is quite often flooded. Stand was cut with the Bolitho Sale in the mid 80's but not all the trees were cut. The current stand is very poorly stocked is low and is heavy to willow brush.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	12	Pole	7		Tag Alder	Medium	5 - 10 feet	Tall Shrub
Red Maple	10	Pole/Sapling	4		Willow spp.	High	5 - 10 feet	Tall Shrub
Quaking Aspen	45	Pole/Sapling	5	34				
Balsam Fir	29	Sapling/Pole	4					
Red Pine	4	Pole/Sapling	5					

82 6120 - Lowland Cedar Poletimber Well 121.1 115 Unspecified N/A Stand was not accessible during field inventory. Data was taken in 2010. Stand is wet with poor quality due to poor site. Heavy underbrush. Stand has some pine ridge pockets that are too small to type out, these mainly occur on the north and west.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	12	Pole	7		Black Spruce	Medium	Variable	Sapling
Northern White Cedar	52	Pole/Log/Sap	7	115	Northern White Cedar	Low	< 5 feet	Sapling
Tamarack	32	Pole/Sapling	8		Tag Alder	Full	5 - 10 feet	Tall Shrub
White Pine	4	Log	12		Tamarisk	Low	Variable	Tall Shrub

83 623 - Emergent Wetland Nonstocked 30.8 Unspecified No

84 42290 - Natural Mixed Pine Sawtimber Well 2.6 105 111-140 N/A Stand is a small ridge of pine with cedar on the fringes. Stand was not accessible during field inventory. Data was taken in 2010.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	6	Pole	7		Balsam Fir	Medium	Variable	Sapling
Black Spruce	8	Pole	7		Black Spruce	Medium	Variable	Sapling
Northern White Cedar	14	Pole	8		Northern White Cedar	Low	< 5 feet	Sapling
White Pine	35	Log/Pole/XLog	14		White Pine	Low	5 - 10 feet	Sapling
Red Pine	37	Log/Pole/XLog	14	105				

85 622 - Lowland Shrub Nonstocked 4.2 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
86	622 - Lowland Shrub	Nonstocked	5.4		Unspecified	No	New stand added.																																																			
87	6120 - Lowland Cedar	Poletimber Well	96.9	92	Unspecified	N/A	Stand was not accessible during field inventory. Data was taken in 2010.																																																			
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88	622 - Lowland Shrub	Nonstocked	149.7		Unspecified	No																																																				
89	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	53.7	91	Unspecified	N/A	Stand was not accessible during field inventory. Data was taken in 2010. Stand is has subtle ridges of spruce, birch and pine which is connected by low ground cedar, spruce and tamarack. Cedar is very variable in size class. Majority of pine is supercanopy .																																																			
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90	622 - Lowland Shrub	Nonstocked	3.3		Unspecified	No																																																				
91	622 - Lowland Shrub	Nonstocked	2.2		Unspecified	No																																																				
92	6127 - Lowland Pine	Sawtimber Well	5.4	79	111-140	N/A	Stand was not accessible during field inventory. Data was taken in 2010. Stand is a heavily stocked narrow ridge of pine. Cedar on edges and black spruce mixed throughout.																																																			
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93	622 - Lowland Shrub	Nonstocked	41.3		Unspecified	No																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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94 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 24.7 107 Unspecified N/A Stand was not accessible during field inventory. Data was taken in 2010. Subtle ridges with low ground between, low to the west.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	18	Log/Pole/XLog	13		Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	6	Pole	7		Beech	Low	5 - 10 feet	Sapling
Black Spruce	6	Pole	6		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	41	Pole/Log	8	107	Black Spruce	Medium	Variable	Sapling
Tamarack	8	Pole	8		Northern White Cedar	Low	< 5 feet	Sapling
White Pine	6	Log/XLog	16		White Pine	Low	5 - 10 feet	Sapling
Red Pine	2	Log/XLog	16		Tag Alder	Medium	< 5 feet	Tall Shrub
Black Ash	13	Pole	8					

95 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Medium 14.1 105 Unspecified N/A Stand was not accessible during field inventory. Data was taken in 2010. Stand is lower quality due to all the water that is in the area and flows through the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	6	Pole/Log	9		Black Spruce	Medium	Variable	Sapling
Paper Birch	14	Pole	7		Northern White Cedar	Low	< 5 feet	Sapling
Black Spruce	16	Pole	6		Tamarack	Low	< 5 feet	Sapling
Northern White Cedar	42	Pole	8	105	Tag Alder	Full	< 5 feet	Tall Shrub
Tamarack	12	Pole	7					

96 623 - Emergent Wetland Nonstocked 5.7 Unspecified No

97 622 - Lowland Shrub Nonstocked 1.5 Unspecified No

98 6129 - Mixed Coniferous Lowland Forest Poletimber Well 1.6 109 Unspecified N/A Stand was not accessible during field inventory. Data was taken in 2010.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	6	Pole	9		Balsam Fir	Low	Variable	Sapling
Balsam Fir	3	Pole	8		Black Spruce	Medium	Variable	Sapling
Black Spruce	13	Pole	6		Northern White Cedar	Medium	< 5 feet	Sapling
Northern White Cedar	40	Pole/Log	8	109	Tag Alder	Low	< 5 feet	Tall Shrub
Tamarack	22	Pole	7					
White Pine	10	Log/XLog	14					
Red Pine	6	Log/XLog	14					

99 623 - Emergent Wetland Nonstocked 3.7 Unspecified No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
100	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	7.5	115	Unspecified	N/A	Stand was not accessible during field inventory. Data was taken in 2010.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Pole/Log	9		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch	5	Pole	9		Balsam Fir	Low	Variable	Sapling
Balsam Fir	2	Pole	8		Black Spruce	Medium	Variable	Sapling
Black Spruce	17	Pole	7		Northern White Cedar	Low	< 5 feet	Sapling
Northern White Cedar	39	Pole	8	115	Tag Alder	Medium	< 5 feet	Tall Shrub
Tamarack	21	Pole	7					
White Pine	10	Log/XLog	14					
Red Pine	4	Log/XLog	14					

101	6139 - Mixed Lowland Forest	Poletimber Medium	5.2	75	Unspecified	N/A	Stand is a mature mix of upland and lowland, sprawling stand with some low stocked areas of aspen.
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102	6127 - Lowland Pine	Sawtimber Well	5.0	82	81-110	N/A	Stand was not accessible during field inventory. Data was taken in 2010. Mixed stand of upland and lowland as well as species. There are nice red pine throughout and stand should be cut but a bridge is needed for the Stutts. There is an inclusion of hemlock on the northwest, right on the line also a trace amount of paper birch.
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