



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61135

Entry Year 2021

Acreage: 2,284

County Kalkaska

Management Area: Kirtland's Warbler

Revision Date: 2019-06-11

Stand Examiner: Steve Crigier

Legal Description:

T25N R06W Sections 6-8, 17 & 18

Identified Planning Goals:

The following sections contain information on vegetation management direction in the form of Desired Future Conditions, 10-Year Management Objectives and Long-Term Management Objectives for each of the major cover types or forest communities within the management area. This information applies to those portions of the forest where active management (e.g., timber harvest, prescribed fire, planting or mowing) will be conducted. In other portions of the state forest, natural succession will achieve ecological objectives. While most stands have a variety of trees species and other vegetation, they are classified by the predominant species.

Soil and topography:

This compartment comprises primarily Rubicon Sand with traces of Saugatuck Sand and Newton Loamy Sand. The only significant elevation changes are along the riparian corridors. The western portion has some larger Spruce, Q-Type, and E-Type stands that are relatively wet. The remainder is dry and flat with either planted red pine or jack pine.

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

Private land to the north and west with a subdivision the east. The south edge is state land that is managed out of the Manton office. There are a few small private in holdings.

Unique Natural Features:

Special Conservation Area in the southwest part of the compartment.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

KW management area.

Watershed and Fisheries Considerations:

The Manistee River, Big Cannon Creek, and several unnamed tributaries flow through Compartment 135. All streams in Compartment 135 are Designated Trout Streams. The Manistee River and Big Cannon Creek are also protected by the Manistee River Natural Rivers Designation. The Manistee River and Big Cannon Creek host naturally reproducing populations of brook, brown, and rainbow trout. For timber operations near the Manistee River and Big Cannon Creek, Natural Rivers buffers should be followed. The SWSW of section 6 is the location of the "West Sharon Access Site" which is primarily for loading and unloading canoes into the Manistee River.

Wildlife Habitat Considerations:

This compartment falls within the Sharon Kirtland's Warbler (KW) Management Unit. The Kirtland's Warbler Management Plan outlines harvest and planting regimes for KW habitat. However, forest treatments should maintain a variety of successional stages of pine-oak-aspen forest and grass-shrub openings, with some mid to late successional forest in places, which is typical of a fire driven landscape. Big Cannon Creek and the Manistee River flow through parts of this compartment and several scattered lowland communities are also located here.

Maintaining a component or deciduous browse in and near deer yards is important. Aspen harvests should be designed to mimic wildfires of various intensities. This creates a mosaic of age classes and increases structural diversity within an area. The creation of dead and downed logs should be incorporated into timber prescriptions to provide habitat for various wildlife species. Standing dead timber is usually left during harvest operations unless deemed a safety hazard. Species associated with pine, oak, and aspen mixed upland forests and openland habitats, such as deer, badger, wild turkey, scarlet tanager, hog-nosed snake, ruffed grouse, Cooper's hawk, red-backed salamander, Kirtland's warbler, and gray squirrel will benefit from management here.

Compartment 135 falls within the Kirtland's Warbler Management Area of the Regional State Forest Management Plan. Featured wildlife species for this MA include KW, pileated woodpecker, ruffed grouse, snowshoe hare, turkey, and deer.

Mineral Resource and Development Concerns and/or Restrictions

The nearest active sand/gravel production is occurring roughly three miles to the southeast. There appears to be some sand & gravel potential within the compartment, but the water table is shallow here on the outwash plain, which could limit development. The nearest oil & gas production, past or present, is located approximately two miles away, primarily from Devonian carbonates. There has been no exploration and there is no active mineral leasing within the compartment. Oil & gas potential is considered low at this time. There is no known metallic mineral potential in this part of the state. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Good access throughout most of the compartment with either county roads or forest two tracks.

Survey Needs:

Existing survey markers should be sufficient for this year of entry treatments.

Recreational Facilities and Opportunities:

West Sharon Access Site.

Fire Protection:

Fire Protection is from the Kalkaska DNR Field Office. Sections 8 and 18 are within Zone 5 dispatch which means additional units from Manton, Grayling, and Houghton Lake respond on a high fire day or above. VFD Fire Protection is from the Garfield Twp. Fire Department. Urban Interface can be an issue in sections 6, 7, and 8 with many private parcels and cabins or homes along the river. Access is not a problem in most of this compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

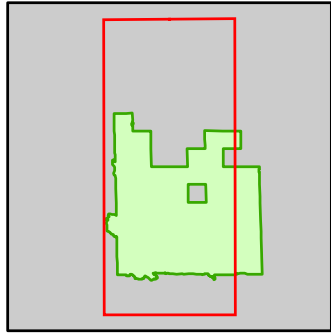
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

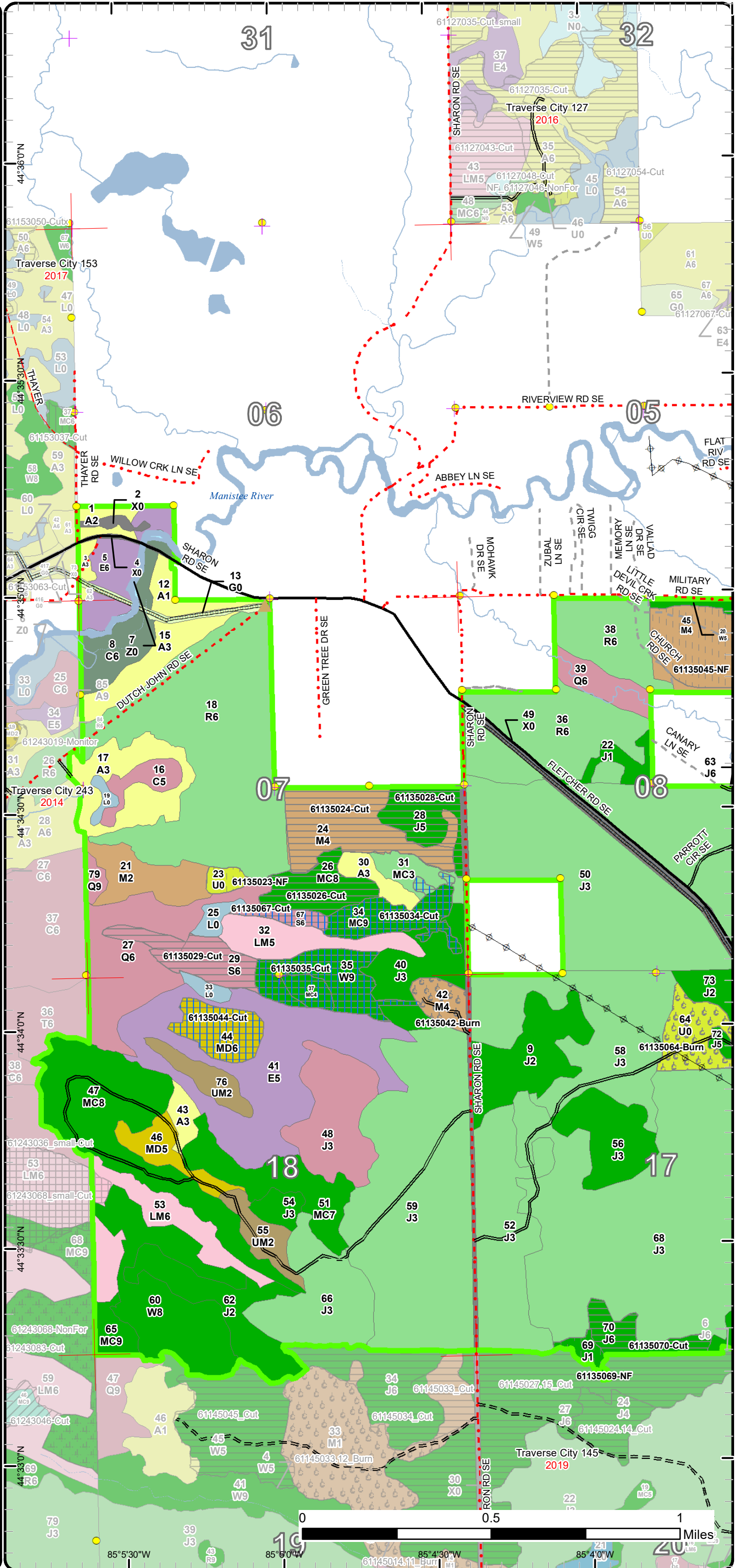
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 135
 25N-06W Sec. 6-8, 17 & 18
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Kirtland's Warbler
 YOE: 2021
 Acres: 2,284 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 11/6/2019
 Map Phase: Post Review

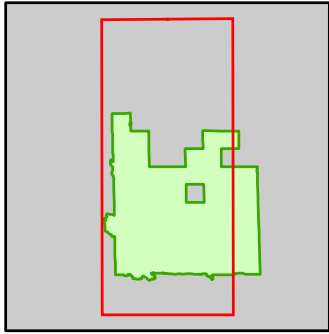


- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Prescribed Burn
- Seed Tree (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub

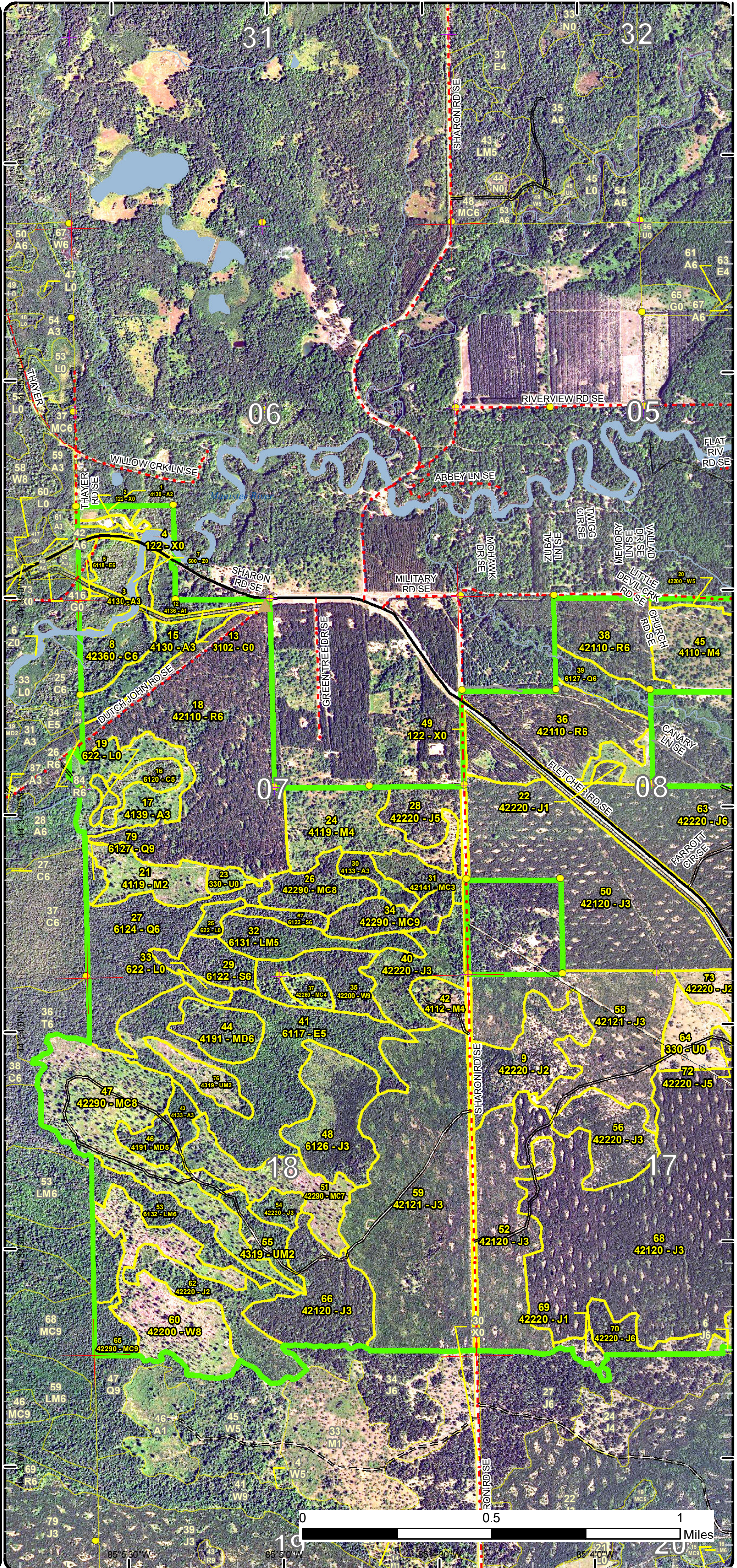


Stand Boundary Map

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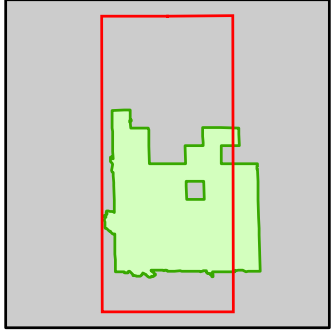


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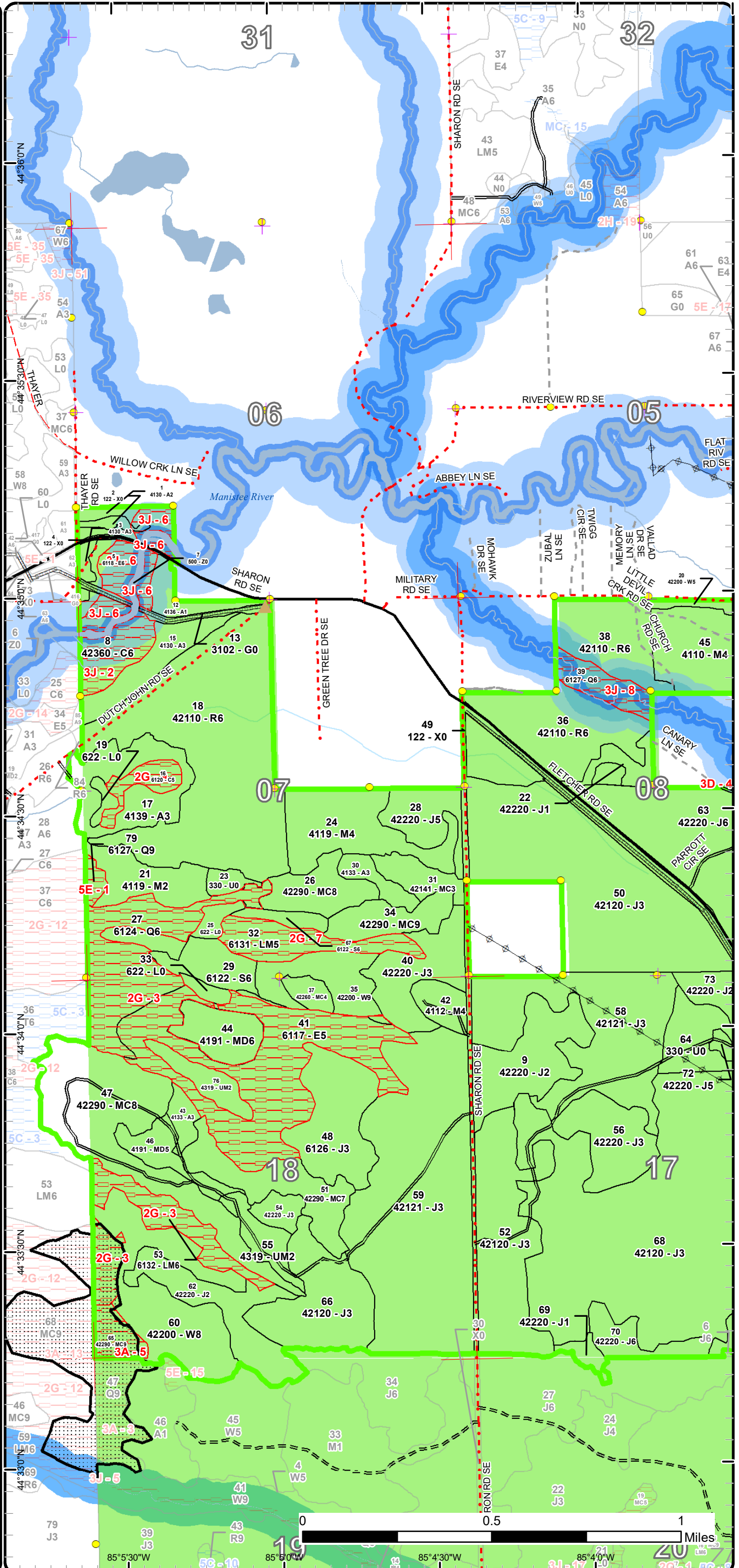


Special Conservation Areas & Site Conditions Map

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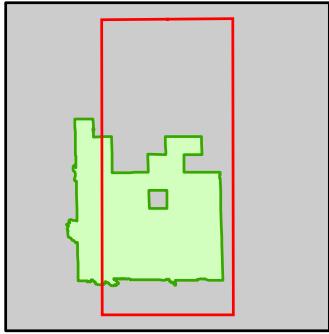


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- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer

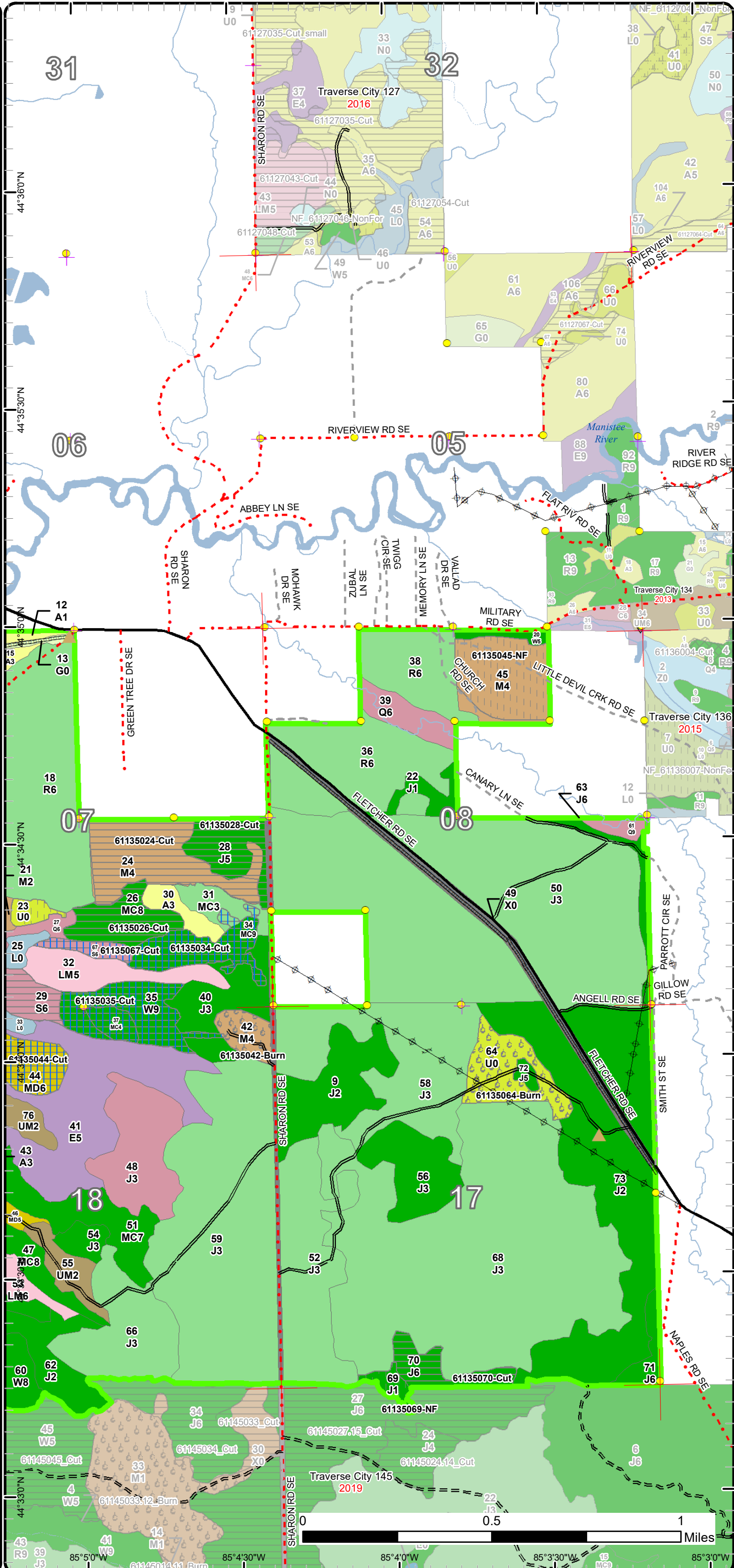


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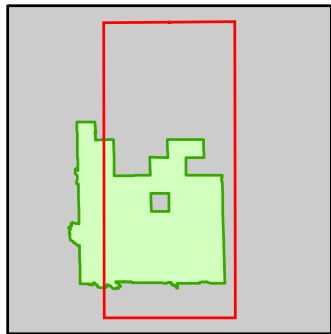


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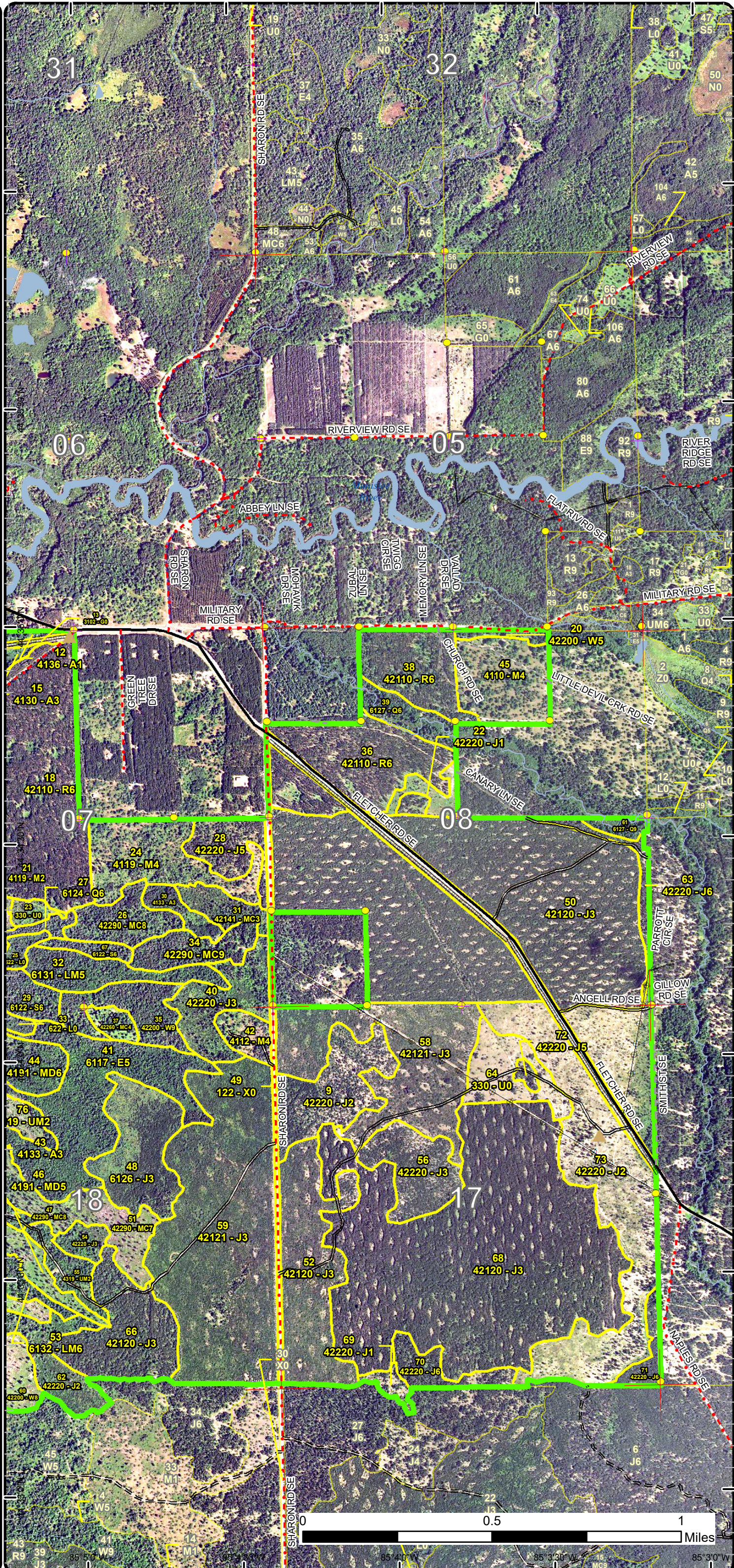


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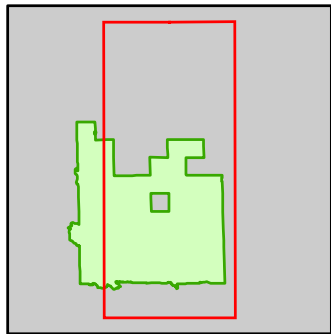


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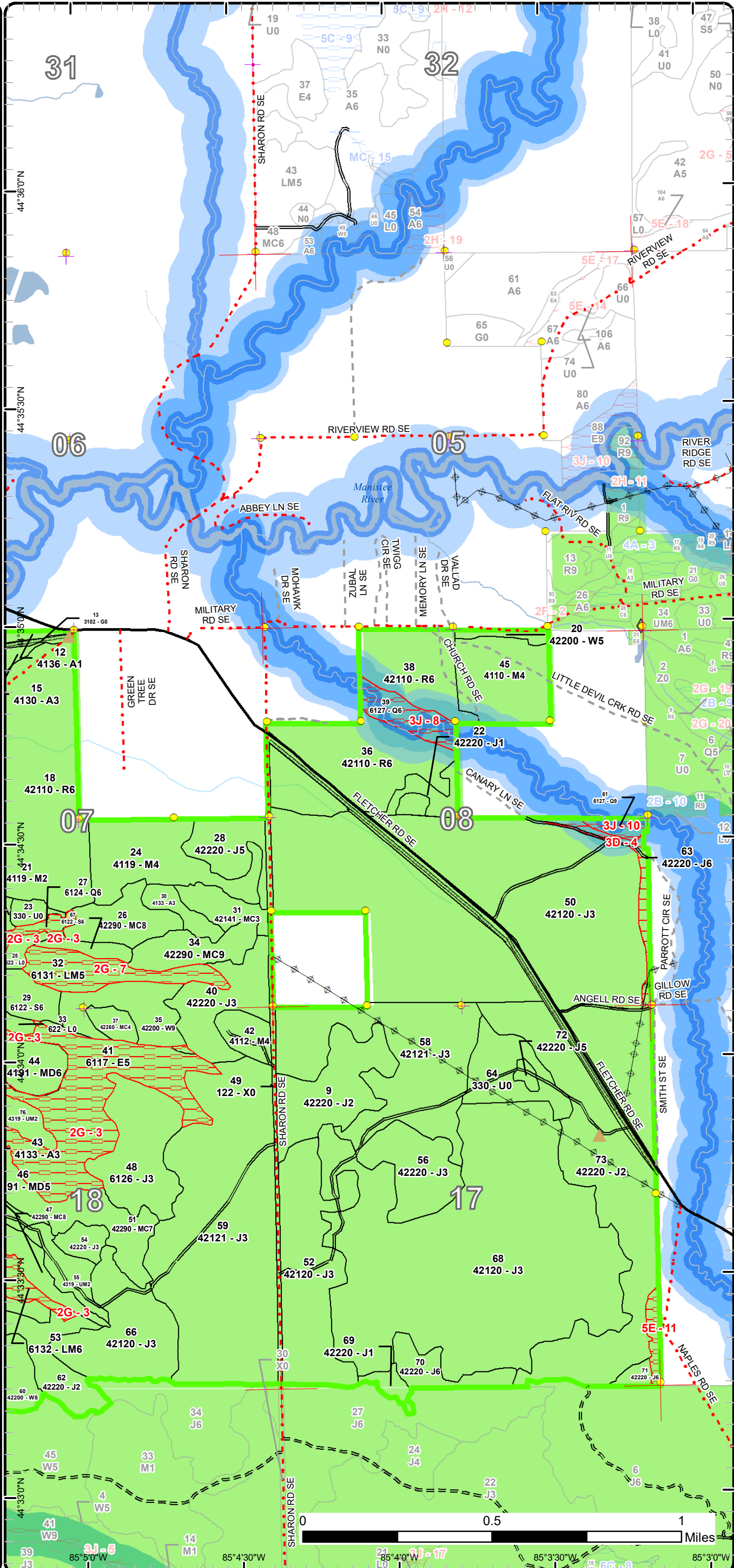


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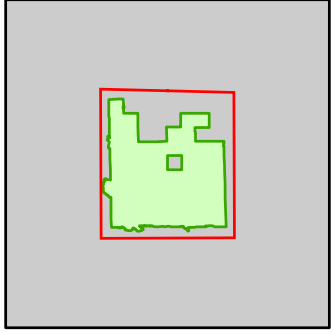


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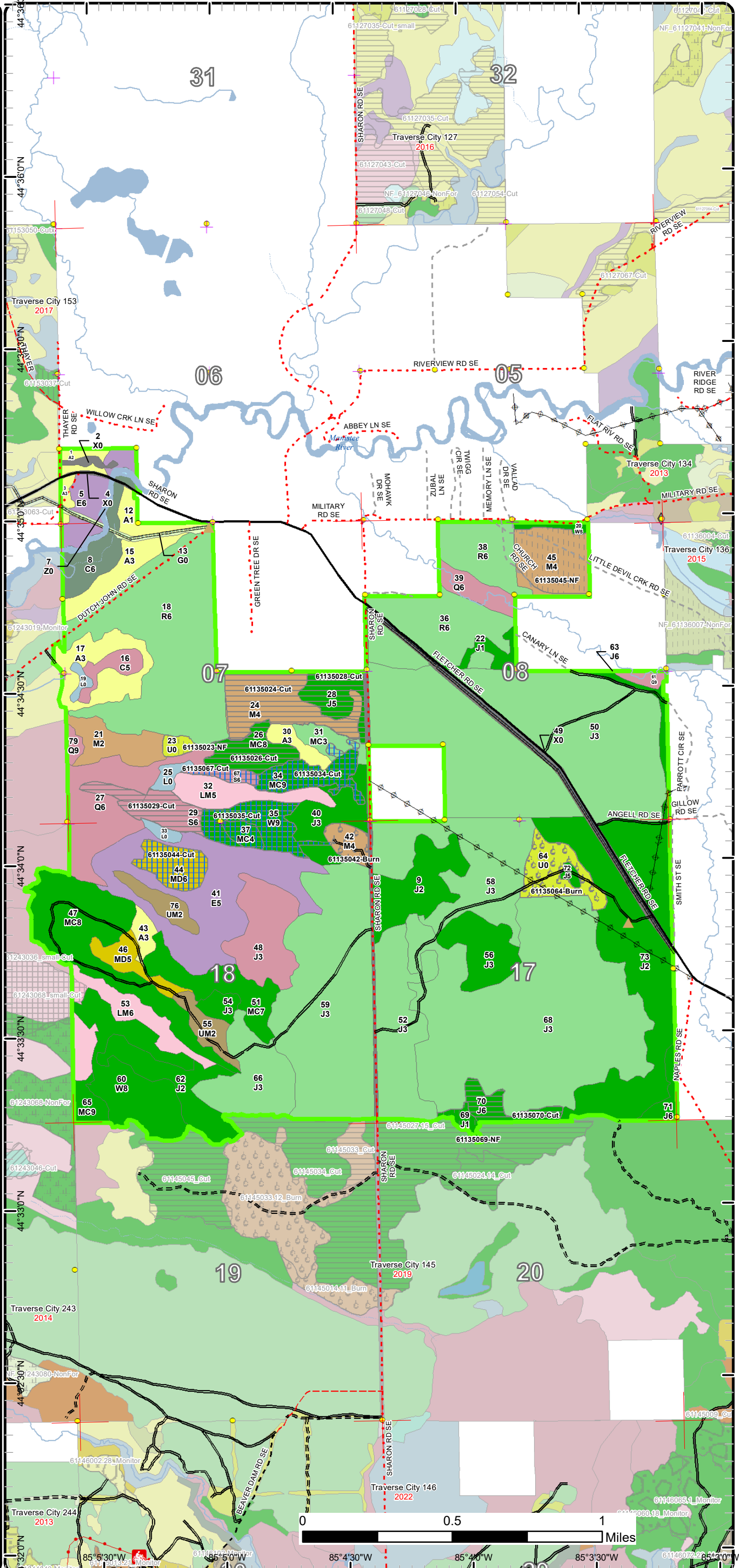


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Report 1 – Total Acres by Cover Type and Age Class



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	51	15	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Cedar	0	0	0	0	0	0	0	0	0	9	0	0	21	0	0	0	0	0	30
Herbaceous Openland	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Jack Pine	0	139	420	39	547	2	0	26	13	9	0	0	0	0	0	0	0	0	1193
Low-Density Trees	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Lowland Conifers	0	0	0	0	0	0	0	0	0	76	0	0	0	0	0	0	0	0	76
Lowland Deciduous	0	0	0	0	0	0	0	90	0	0	0	0	20	0	0	0	0	0	110
Lowland Mixed Forest	0	0	0	0	0	0	0	22	0	0	0	30	0	0	0	0	0	0	52
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	5	15	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	31
Natural Mixed Pines	0	0	0	0	0	0	0	0	43	71	31	0	8	0	0	0	0	0	153
Northern Hardwood	0	21	0	0	43	40	0	0	0	0	0	0	0	0	0	0	0	0	104
Planted Mixed Pines	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Red Pine	0	0	0	0	0	0	230	0	0	0	0	0	0	0	0	0	0	0	230
Upland Mixed Forest	0	11	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Urban	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	0	0	0	0	0	0	0	27	55	0	0	0	0	0	0	0	0	82
Total	86	222	446	47	608	42	230	169	88	235	31	30	49	0	0	0	0	0	2281



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 135
Total Compartment Acres: 2,284

Commercial Harvest - 183
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine	33	0	0	0	0	0	0	0	0	33
Lowland Spruce/Fir	20	0	0	5	0	0	0	0	0	26
Mixed Upland Deciduous	0	0	0	18	0	0	0	0	0	18
Natural Mixed Pines	19	0	0	27	0	0	0	0	0	46
Northern Hardwood	37	0	0	0	0	0	0	0	0	37
White Pine	0	0	0	24	0	0	0	0	0	24
Total	109	0	0	74	0	0	0	0	0	183

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	183	0	0	0	33	0	0	0	40	255
Next Step	0	52	39	0	0	78	209	0	33	410
Total	183	52	39	0	33	78	209	0	72	665



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat
											Cut

Approved Treatments:

23	61135023-NF	4.3	330 - Low-Density Trees	Nonstocked	0	Unspecified	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

24	61135024-Cut	36.9	4119 - Mixed Northern Hardwoods	Poetimber Poor	40	1-50	Harvest	Clearcut with Retention	310 - Herbaceous Openland		No
<p><u>Prescription</u> Set back wood encroachment by clear cutting the site with retention.</p> <p><u>Specs:</u> Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> grass</p> <p><u>Other Comment:</u> Eventually should burn this stand to stimulate native herbaceous vegetation and set back woody encroachment. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											

26	61135026-Cut	19.0	42290 - Natural Mixed Pine	Sawtimber Medium	70	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut and plant to red pine. Maybe leave some retention along the west side. Will need competition control. Avoid any drainages.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial - Release;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(3yr)</p> <p><u>Acceptable Regen:</u> red pine</p> <p><u>Other Comment:</u> Some nice pockets of log sized red and white pine. Stocking is variable. Looks like they did a species cut a while back. Red maple regen is getting browsed pretty hard. White pine is pretty scraggly. There is a drain at the north end of the stand, seasonal. Pockets of A2/M2 regen. BA: 130, 110, 60,</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
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28	61135028-Cut	19.8	42220 - Natural Jack Pine	Poletimber Medium	60	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut stand and plant to red pine. Plan to deal with jack pine competition. Leave some retention at the south end of the stand.
Specs:

Next Step Pesticide, Aerial - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial - Release;
Treatments: Monitoring, Artificial Regen(3yr)

Acceptable red pine
Regen:

Other Some pockets of younger Jack pine but mostly 4-5 stick pine. There are some pockets of mortality in the central part of the stand. a bit of
Comment: oak in the under story. Stocking is variable with pockets of open areas. Need to verify survey corner yet.

Site Condition

Proposed Start Date: 10/1 /2020

29	61135029-Cut	20.3	6122 - Black Spruce	Poletimber Well	85	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
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Prescription Clearcut stand. Try to save as much of the smaller diameter spruce as possible during the harvest. Try to extend the sale area west as
Specs: much as possible into st 27. There are some drainages out there so heads up for those. Could mark some white pine to leave for seed/diversity.

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

Acceptable spruce, fir, maple
Regen:

Other quite a bit of nice spruce 4-6 sticks tall. West finger has a lot of small diameter spruce. Eastern part is more of transition ground with a red
Comment: maple/fir component. Some mortality in the spruce and fir.

Site Condition

Proposed Start Date: 10/1 /2020

34	61135034-Cut	20.9	42290 - Natural Mixed Pine	Sawtimber Well	70	81-110	Harvest	Seed Tree	429 - Mixed Upland Conifers	Even-Aged	No
----	--------------	------	----------------------------	----------------	----	--------	---------	-----------	-----------------------------	-----------	----

Prescription Shelterwood harvest with variable residual BA, 0-30 sf/acre. Remove all jack pine, aspen, red maple, and spruce. Mark to leave red pine,
Specs: white pine and underrepresented species. Protect desirable advanced regeneration. Extend treatment into adjacent stands to remove residual overstory that is easily accessible.

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

Acceptable White pine, red pine, jack pine, oak, spruce, cherry, red maple, aspen.
Regen:

Other There appears to be access to Stand 30 through the east end of this stand. Reuse this access.
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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
35 61135035-Cut	24.2	42200 - Natural White Pine	Sawtimber Well	75	81-110	Harvest	Seed Tree	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Shelterwood harvest with variable residual BA, 0-30 sf/acre. Cut all jack pine, tamarack and spruce. Mark other species to leave either individually or in clumps, especially in wetter, western end.</p> <p><u>Specs:</u></p> <p>Maybe leave fir < ~4" dbh.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> White pine, red pine, jack pine, balsam fir, tamarack, black spruce.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
37 61135037-Cut	5.7	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	75	1-50	Harvest	Seed Tree	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Remove some volume while we are working in the adjacent stand. Mark some representative species to leave. BA Range from 0-30sqft/ac.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> White pine, red pine, oak, aspen etc.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
42 61135042-Burn	9.4	4112 - Maple, Beech, Cherry Association	Poletimber Poor	35	1-50	Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
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44	61135044-Cut	17.6	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	65	81-110	Harvest	Seed Tree	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription more of a habitat improvement cut but should be doable commercially as there is mostly upland with a few ephemeral drains. green tree
Specs: some seed trees in clumps while marking, probably save all fir under 3" dbh and ok to save a mix bag of all current overstory species.

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

Acceptable any mix of current overstory, will likely mush to maple and fir and aspen in a few areas and conifer in pine areas.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

45	61135045-NF	30.9	4110 - Sugar Maple Association	Poletimber Poor	35	1-50	NonForestMgt	Brush Cutting	31022 - Warm Season Grass		No
-----------	--------------------	------	--------------------------------	-----------------	----	------	--------------	---------------	---------------------------	--	----

Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and
Specs: shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other Eventually should burn this stand to stimulate native herbaceous vegetation and set back woody encroachment. Maintain as needed with
Comment: mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Site Condition

Proposed Start Date: 10/1 /2020

64	61135064-Burn	23.1	330 - Low-Density Trees	Nonstocked		Unspec ified	Burn	Opening	31022 - Warm Season Grass		No
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Prescription The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be
Specs: based on currents needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, burning, or removal of woody encroachment.

Next Step NonForestMgt, Other - Specify
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020



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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
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67	61135067-Cut	5.4	6122 - Black Spruce Poletimber Well	70	51-80	Harvest	Seed Tree	6130 - Fir, Aspen, Maple	Two-Aged	No
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Prescription Seed tree harvest stand, mark some pine and spruce to leave for seed. Avoid the really wet ground.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable fir, spruce, pine, maple, aspen

Regen:

Other transition ground down to the real wet areas. A mix of spruce, for, white pine and red maple

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

69	61135069-NF	4.6	42220 - Natural Jack Pine	Sapling Poor	17	Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous	No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Possibly seed in some additional native grasses and forbs that have forage value and that will attract insects for bugging. Ideally it would be nice to burn this stand but size and location make burning unlikely.

Comment:

Site Condition

Proposed Start Date: 10/1 /2010

70	61135070-Cut	13.3	42220 - Natural Jack Pine	Poletimber Well	75	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
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Prescription Clearcut with stand to the south, including specs to facilitate natural regeneration, e.g. leaving tops/limbs scattered throughout the stand.

Specs:

Next Step ; ; ; SitePrep, Scarification

Treatments:

Acceptable Natural JP for KW habitat.

Regen:

Other Decided to change MO from planted to natural jack pine at Comp 145 compartment review on 8/3/2017, per Jason Hartman.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Total Treatment 255.4
Acres Proposed:

Report 4 – Site Conditions

Traverse City Mgt. Unit

Steve Crigier : Examiner

Compartment: 135

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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Dominant Site Conditions

5C	2G	3A	3D	3J	5E
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Total	Acres	Acres Avail	Acres	Dominant Site Conditions	5C	2G	3A	3D	3J	5E
80	80	0	0	Aspen					0	
30	0	0	30	Cedar		9			21	
5	5	0	0	Herbaceous Openland					0	
1195	1181	0	14	Jack Pine				9		5
27	27	0	0	Low-Density Trees		0				
76	6	0	69	Lowland Conifers	0	48		0	18	3
110	4	0	106	Lowland Deciduous		89			17	
51	0	0	51	Lowland Mixed Forest		51	0			
10	10	0	0	Lowland Shrub		0				
20	20	0	0	Lowland Spruce/Fir		0				
31	31	0	0	Mixed Upland Deciduous		0				
152	144	0	8	Natural Mixed Pines	0	0	8			
104	104	0	0	Northern Hardwood						
11	11	0	0	Planted Mixed Pines						
230	230	0	0	Red Pine		0				
23	23	0	0	Upland Mixed Forest						
39	39	0	0	Urban					0	
5	5	0	0	Water					0	
83	81	0	2	White Pine		1	1			0
2,284	2,002	0	281	Total Forested Acres	0	198	9	9	56	8
	88%	0%	12%	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	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 135
Year of Entry: 2021

2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	167	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3D: Recreational / Scenic values	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3A: Conservation Values incompatible with harvest at this time	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: SCA for Other Habitat Area.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 135
Year of Entry: 2021

8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	4				
Comments:							
11	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
1	4130 - Aspen	Sapling Medium	5.4	16	Immature	N/A	north area of stand has large GO where they put some of the fill from access site construction, some A3 and some more open																																													
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Quaking Aspen</td> <td>90</td> <td>Sapling</td> <td>1</td> <td>16</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	90	Sapling	1	16																																			
Canopy Species	% Cover	Size Class	DBH	Age																																																
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2	122 - Road/Parking Lot	Nonstocked	2.7			No	Access Site road n parking lot																																													
3	4130 - Aspen	Sapling Well	3.1	6	Immature	N/A	Part of Puzzle Piece Popple, 61-007-11-01, completed February 2013, some larger white pine along road and southeast end has some red pine residual, manage for regenerating A3.																																													
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4	122 - Road/Parking Lot	Nonstocked	1.6			No																																														
5	6118 - Lowland Deciduous with Cedar	Poletimber Well	20.4	110		N/A																																														
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7	500 - Water	Nonstocked	5.0			No	Manistee River																																													
8	42360 - Upland Cedar	Poletimber Well	21.0	110		N/A																																														
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9	42220 - Natural Jack Pine	Sapling Medium	36.4	17	Immature	N/A	east end of the stand has sparse stocking with a decent component of cherry. open grown timber. tress are about 15' tall.																																													
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Black Cherry	20	Sapling	2	17																																																
12	4136 - Aspen, Mixed Conifer	Sapling Poor	9.6	17	Immature	N/A																																														
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13	3102 - Grass	Nonstocked	5.3			Managed Opening	underground gas pipeline ROW																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
15	4130 - Aspen	Sapling Well	18.8	6	Immature	N/A	Part of Puzzle Piece Popple, 61-007-11-01, completed February 2013. north end has thicker oak pocket, scattered pine and oak throughout. nice aspen regen for the most part. manage for understory.																																					
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Bigtooth Aspen	80	Sapling	1	6																																								
16	6120 - Lowland Cedar	Poletimber Medium	9.1	85	51-80	N/A	Most of this stand was left as retention from the New Dude Mix sale as it is pretty wet and mostly cedar. Some spruce, for and red maple were cut from its edges.																																					
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17	4139 - Aspen, Mixed Deciduous	Sapling Well	29.4	5	Immature	N/A	Stand was recently harvested. coming back to mostly A span, maple and cherry. Tress are about 10' tall. Stand is also on some transition ground so there are some wetter areas, stocking is a bit less in these spots. Scattered pine and spruce were left for a seed source. South and east part has a bit more red maple and isn't filling in quite as nice. Also a good amount of deer browse.																																					
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18	42110 - Planted Red Pine	Poletimber Well	137.9	58	111-140	N/A	Third row thinned, 61-016-11-01, 135 Dutch Resinosa, completed November 2013. should be ready for another thin next YOE, still a decent amount of crown space available for the most part. or if needed to thin as directed by the MA plan could lightly thin now.																																					
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19	622 - Lowland Shrub	Nonstocked	2.7			No	LO																																					
20	42200 - Natural White Pine	Poletimber Medium	4.0	75	51-80	N/A	Looks like the stand had the aspen and red maple cut out of it last year of entry. Stand is a mix of pole and log sized pine with aspen and red maple in the under story. Stand is a on a bit of a slope down to Military Rd.																																					
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21	4119 - Mixed Northern Hardwoods	Sapling Medium	21.4	5	Immature	N/A	Stand was cut in 2014 'New Dude Mix'. Scattered pine and spruce was left as seed trees. Stand is mostly filling in with red maple and cherry. There are some jack pine and spruce coming along as well. There is a seasonal drain running through the stand. Deer are browsing the maple and cherry.																																					
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22	42220 - Natural Jack Pine	Sapling Poor	8.1	5	Immature	N/A	Pocket of jack pine that was cut with 135 canary red 61-013-11-01. Stand is starting to fill in with Jack pine seedlings. Trees are kinda visible through the snow.																																					
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23	330 - Low-Density Trees	Nonstocked	4.3	0	Unspecified	No	Opening filling in with a mix of species.																																												
24	4119 - Mixed Northern Hardwoods	Poletimber Poor	39.6	40	1-50	N/A	opening that is filling in. Scattered cherry, Jack pine, a span and white pine.																																												
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25	622 - Lowland Shrub	Nonstocked	4.4			No																																													
26	42290 - Natural Mixed Pine	Sawtimber Medium	19.0	70	51-80	N/A	Some nice pockets of log sized red and white pine. Stocking is variable. Looks like they did a species cut a while back. Red maple regen is getting browsed pretty hard. White pine is pretty scraggly. There is a drain at the north end of the stand, seasonal. Pockets of A2/M2 regen. BA: 130, 110, 60,																																												
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27	6124 - Lowland Spruce-Fir	Poletimber Well	54.4	85	51-80	N/A	Stand is mostly a black spruce and tamarack mix. Wet for the most part but there appears to be some operable areas. There are a few tag alder drains in the stand, some of them show up on the imagery. Some areas with pretty nice Tamarack and spruce and bounces between fully and moderately stocked.																																												
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28	42220 - Natural Jack Pine	Poletimber Medium	17.8	60	51-80	N/A	Some pockets of younger Jack pine but mostly 4-5 stick pine. There are some pockets of mortality in the central part of the stand. a bit of oak in the under story. Stocking is variable with pockets of open areas.																																												
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29	6122 - Black Spruce	Poletimber Well	15.0	85	51-80	N/A	quite a bit of nice spruce 4-6 sticks tall. West finger has a lot of small diameter spruce. Eastern part is more of transition ground with a red maple/fir component. Some mortality in the spruce and fir.																																												
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30	4133 - Aspen, Mixed Pine	Sapling Well	7.8	27	Immature	N/A	Mostly aspen and red maple mix with scattered large red pine over top. Some jack pine mixed in too.																																								
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31	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	10.8	17	1-50	N/A	This is one of those two-aged stands that Mifi does not let us describe properly. Canopy is combination of overstory red and white pine with understory seeded jack pine and mixed deciduous. Log canopy ~25% and sapling/pole ~75%. Jack pine seeded 2002 (FTP C62-666) with variable residual overstory. JP density is greater in areas with less canopy, especially west end. Overstory is clumpy, mostly red pine with a little white pine. Fair amount of RM in understory too.																																								
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32	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Medium	22.0	60	51-80	N/A	Wet mixed conifer/deciduous. Didn't really look at east end but it looks even wetter and poorly stocked. Drain might run through center (east-west).																																								
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33	622 - Lowland Shrub	Nonstocked	3.3			No																																									
34	42290 - Natural Mixed Pine	Sawtimber Well	17.6	70	81-110	N/A	Variable stand. Alternates from JP to WP with pockets of RP. Some open areas. Some curly top RP and some supercanopy WP. Gets wetter towards the west end but still manageable. Average BA ~100 sf/acre. Heavy browse on RM < 5'.																																								
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35	42200 - Natural White Pine	Sawtimber Well	23.3	75	81-110	N/A	Variable stand. Some parts are pure WP and others are more mixed WP/RP with BS/tam in wetter parts. Average BA ~95 sf/acre. A couple ridges with wetter areas of tag alder or RM saplings between. Relatively dense understory with some WP and BS poles. Should be manageable.																																								
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36	42110 - Planted Red Pine	Poletimber Well	60.4	54	111-140	N/A	- row thinned with 135 canary red 61-013-11-01. jack pine all cut and 1/3rd row thinned.- Trees are mostly 4 sticks tall. Looks like the canopies have room to expand for now. Stocking is patchy from where the jack pine pockets were cut out. BA: 120, 100, 120.																																													
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37	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	5.7	75	1-50	N/A	more open filling in with white pine and some maple mixed in. W5ish																																													
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38	42110 - Planted Red Pine	Poletimber Well	32.0	56	81-110	N/A	row thinned with 135 canary red 61-013-11-01, likely ready for another thin next YOE																																													
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39	6127 - Lowland Pine	Poletimber Well	13.3	80	51-80	N/A	mixed ash n maple along creek, along with some bigger red pine and white pine. save for riparian corridor, no cut.																																													
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40	42220 - Natural Jack Pine	Sapling Well	28.3	17	1-50	N/A	Cut ~2002 as part of Sharon Warbler, 61-032-01-01. 2" spec except left red and white pine. Fairly dense jack pine regen with scattered spruce and deciduous pockets. Hard to walk through this stand so this was an edge call.																																													
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41	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	89.8	65	81-110	N/A	10ish acre pocket cut at south end with adjacent timber sale for habitat work... left brush piles and tops throughout for deer browse and hare habitat. turned out great, should fill in nicely to mixed fir deciduous and conifer.																																													
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42	4112 - Maple, Beech, Cherry Association	Poletimber Poor	9.4	35	1-50	N/A	opening filling in with a mix of species.																																													
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43	4133 - Aspen, Mixed Pine	Sapling Well	6.0	35	1-50	N/A																																					
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44	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	17.6	65	81-110	N/A	this is an area in the larger E type that has alot more upland on ridges, maple, fir and some aspen mixed in as well as some white pine.																																				
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45	4110 - Sugar Maple Association	Poletimber Poor	34.0	35	1-50	N/A	opening that is filling in with mostly cherry along with some white pine. Level terrain.																																				
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47	42290 - Natural Mixed Pine	Sawtimber Medium	71.2	85	1-50	N/A	Some areas have regenerated awesome, some taking their time. Swamp edge nice spruce fir tamarack regen, middle upland area nice red on skid trails but most pushing to white pine and red maple. Let go another 10-20 and take top off... impresses with the amount of red pine in areas! seed tree/shelterwooded. expect skid trails and scuffed up areas to push to mixed pine, mostly white as well as mixed deciduous.																																				
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48	6126 - Lowland Jack Pine	Sapling Well	39.0	24	Unspecified	N/A	stand seeded back in the day, west side slower to fill in, as its leatherleaf in some areas. overall stnad fully to moderately stocked.																																				
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49	122 - Road/Parking Lot	Nonstocked	35.1			No	south sharon and fletcher roads																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
50	42120 - Planted Jack Pine	Sapling Well	252.5	30	Immature	N/A	KW opposing weave JP. Trees are about 25` tall. Stand has a couple of private easements through it with quite a bit of adjacent private property.																																																			
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51	42290 - Natural Mixed Pine	Sawtimber Poor	30.6	90	1-50	N/A	stand filling in very nicely. Be end pushing to maple aspen and fire and pine, middle mixed maple spruce, fir n pine. Se end mixed pine with spruce n fir. Cut 2015 with 135 Wet n Dry Mix, 61-053-11-01. Middle part of stand is wetter and more spruce. White pine at either end. Filling in very nicely to mixed conifer and some red maple																																																			
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52	42120 - Planted Jack Pine	Sapling Well	59.6	17	Immature	N/A	trees are about 10-15` tall. very thick density																																																			
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53	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	29.5	105	51-80	N/A	Stand with ephemeral drain down the middle. Cut on both sides and looks like we have dipped into stand about as much as we can. South end has some red pine over thick pine and maple regen.																																																			
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54	42220 - Natural Jack Pine	Sapling Well	6.7	17	Immature	N/A	Scattered to clumpy red and white pine over j3. Manage for understory																																																			
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55	4319 - Mixed Upland Forest	Sapling Medium	11.7	35	1-50	N/A	Stand filling in with pixel pine, maple aspen and cherry...																																																			
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56	42220 - Natural Jack Pine	Sapling Well	27.8	17	Immature	N/A	trees are about 10-15` tall. stocking is a bit more sparse on the north east end of the stand.																																																						
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58	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	78.2	17	Immature	N/A	trees are about 10' tall. quite a bit of cherry mixed in. J3 opposing weave jack pine KW block.																																																						
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59	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	147.7	17	Immature	N/A	large KW block, pretty young block.																																																						
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60	42200 - Natural White Pine	Sawtimber Medium	55.3	85	1-50	N/A	stand regenerating nicely. Some pushing to maple but a lot going to mixed pine and fir, a lot of snow. south block has a lot of log trees left some areas pretty thick. Should be able to take the top off in 10-20, filling in nicely for now. Cut 2015 with 135 Wet n Dry Mix, 61-053-11-01. Cut everything > 3" except cedar, hemlock, oak and trees marked to leave.																																																						
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61	6127 - Lowland Pine	Sawtimber Well	4.4	80	81-110	N/A																																																							
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63	42220 - Natural Jack Pine	Poletimber Well	8.5	80	Unspecified	N/A	Mature jack pine stand but some is younger, narrow strip between road n private, save for retention in heavy cut KW area. very narrow and alot of line running for very little timber.																																																						
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64	330 - Low-Density Trees	Nonstocked	23.1		Unspecified	No	opening filling in a bit with Jack pine and cherry. There is a J5 pocket of a couple of acres in the middle.																																					
65	42290 - Natural Mixed Pine	Sawtimber Well	8.3	112	201+	N/A	Could cut some of the maple out and push to big tree management by marking stand?																																					
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66	42120 - Planted Jack Pine	Sapling Well	42.6	39	Unspecified	N/A	assume it will be managed with KW blocks. looks healthy, to big for KW use																																					
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67	6122 - Black Spruce	Poletimber Well	5.4	70	51-80	N/A	transition ground down to the real wet areas. A mix of spruce, for, white pine and red maple																																					
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68	42120 - Planted Jack Pine	Sapling Well	251.4	38	1-50	N/A	stand is starting to convert to pole sized trees. trees are 20 -30` tall. Some J6 pockets.																																					
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69	42220 - Natural Jack Pine	Sapling Poor	4.6	17	Immature	N/A	opening filling in with Jack pine. A variety of sizes																																					
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70	42220 - Natural Jack Pine	Poletimber Well	13.3	75	51-80	N/A	mostly pole sized jack pine with some immature pockets. stocking is variable and patchy. Some individual dieback.																																					
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71	42220 - Natural Jack Pine	Poletimber Well	8.1	65	51-80	N/A	smaller diameter pine but dense stocking. Looks like this pocket was left as retention.																																					
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72	42220 - Natural Jack Pine	Poletimber Medium	2.2	40	51-80	N/A	small pocket of Jack pine. edges are seeding in with young stuff																																
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73	42220 - Natural Jack Pine	Sapling Medium	131.1	8	Immature	N/A	Part of 135 Overstory Jack, 61-015-11-01, completed December 2013. - Jack pine has seeded in pretty well. trees are about 3-5` tall. scattered oak of various sizes. The harvest was a cut all Jack pine over 4`` so there are some pockets of 4`` Jack pine scattered through the stand. bit off rolling terrain in the South end also a heavier oak component.																																
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76	4319 - Mixed Upland Forest	Sapling Medium	11.2	5	Immature	N/A	site has regenerated nicely to red maple, fir, spruce and white pine. Some pole and log white pine scattered and some 2-5" fir. Site looks great. 10ish acre pocket cut at south end with adjacent timber sale for habitat work... left brush piles and tops throughout for deer browse and hare habitat. turned out great, should fill in nicely to mixed fir deciduous and conifer. Cut 2015, 135 Wet n Dry Mix, 61-053-11-01.																																
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79	6127 - Lowland Pine	Sawtimber Well	3.5	85	141-170	N/A	Nice quality natural white pine mixed with hemlock. Mostly 8-10 stick trees. heavily used by the deer.																																
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