



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61033

Entry Year 2025

Acreage: 1,851

County Manistee

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Joe Ventimiglia

Legal Description:

T24N, R13W, Sections, 1, 5, 6, 7, 12, 18

Identified Planning Goals:

Provide timber products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses.

Soil and topography:

Roscommon-AuGres-Croswell – poorly drained sands; Montcalm-McBride-Kalkaska, Kalkaska-Rubicon – deep, droughty sands; Carlisle-Carbondale-Karston – mucks; Saugatuck – somewhat poorly drained. Topography is level.

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

This compartment has been split since the last entry period. All lands in Springdale Twp were designated as compartment 233. All lands in Cleon Twp are compartment 33. The majority of land within the compartment is private. State ownership consists of two separate blocks of ownership, one on the west of the compartment and the other on the east end. The east block is adjacent to other State ownership in Wexford County which is managed by the Cadillac Forest Management Unit.

Unique Natural Features:

Dutchman's Creek flows through Compartment 33. Dutchman's Creek is a Designated Trout Stream, and is a tributary to Bear Creek, in the Manistee River watershed. Dutchman's Creek most likely has seasonal populations of brook trout, brown trout, rainbow trout (steelhead), coho salmon, and chinook salmon. Bear Creek is a critical component of the Manistee River watershed in that it produces wild steelhead parr. Therefore, maintaining excellent water quality in the Bear Creek watershed is critical.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

None noted beyond using BMP practices and protecting water features, including Dutchman Creek.

Watershed and Fisheries Considerations:

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Wildlife Habitat Considerations:

The western block of the compartment falls predominately on a very poorly drained flat lake plain landscape, characterized by muck soils and flat terrain. The presettlement cover of this LTA was mainly conifer swamp, present forest cover in the compartment is dominated by mixed deciduous swamp, bog, and some low ridges of aspen and pine. Diverse fruiting shrubs, including chokeberry, wild raisin, and dogwood occupy more open areas, especially within and adjacent to non-forested wetlands. Dutchman Creek, with evidence of beaver activity, crosses the compartment. Forest treatments should provide some small or narrow final harvests, retaining components of saplings, conifers, snags, and woody debris as much as possible to mimic natural blowdowns. Individual tree or group selection cuts in hardwood-dominated stands would also be consistent with natural disturbance patterns. Activity should be confined to more well-drained low ridges or to frozen-soil conditions to avoid rutting and compaction of soils and possible disturbance to drainage patterns in the swamps. Stands of decadent alder should be habitat cut during the dormant season to stimulate regeneration. The resulting habitat mosaic will benefit species such as brown snake, black bear, broad-winged hawk, deer, ruffed grouse, downy woodpecker, woodcock, mink, bobcat, and snowshoe hare. Some areas of later-successional swamp hardwoods should be retained in older, large diameter tree cover. Logging trails in this compartment could be gated and maintained as hunting trails.

The northwest half of section 6 and west sides of sections 7 and 18 are on a flat lake plain landscape, characterized by loamy sands and relatively flat terrain. Presettlement forests of beech-maple and white pine-beech-red maple are today dominated by pine plantations, aspen-hardwood mixes on moist soils, and some wetlands and remnant fields. GLO surveyors reported large windthrow areas which were perhaps the dominant natural change factor, along with natural succession. Existing openings contain numerous upland fruiting shrubs important to many songbirds and small mammals and should be managed as semi-open habitats. Much of the aspen types have been regenerated in previous decades are now providing young deciduous cover and open patches for ruffed grouse, chestnut-sided warblers, meadow voles, wild turkey, and red fox. Proposed final harvests should leave tops unchipped for horizontal cover. When harvesting aspen that is adjacent to lowland stands, falling edge trees that occur on the upland/lowland interface provides needed horizontal cover for hares and other animals. The boundary marked trees can be felled into the uncut swamp after harvest is completed. Wildlife will benefit from thinning and diversification of monotypic pine plantations, especially if scattered deciduous trees are retained.

State lands in sections 1 and 12 are on an end moraine landscape with coarse-textured soils. Northern hardwoods occupy most of the state acreage here, with some aspen regeneration, shallow marsh, and mixed conifer swamp in low areas. Selective harvest to manage and perpetuate hardwoods should retain all conifers and a component of snags and coarse woody debris. This hardwood forest/wetland matrix provided habitat for species including red-bellied woodpecker, white-breasted nuthatch, wood frog, raccoon, red-shouldered hawk, and gray fox.

Mineral Resource and Development Concerns and/or Restrictions

Manistee County

There is no known metallic mineral potential in this part of the state. Two active sand/gravel operations are on private land in Sec 4, less than one mile outside the compartment, and there may be potential for commercial sand & gravel development within the compartment, on the uplands. The compartment is within the Antrim Shale gas play and Silurian reef trend. Production has occurred from both formations in the immediate area, but, to date, no wells have been drilled in the western portion of the compartment. Considerable potential may still exist for additional production from beneath the compartment. However, drilling of additional Antrim wells is unlikely to be economical for the foreseeable future, and the play is generally in decline with a trend toward plugging wells. Much of the compartment has the mineral rights leased and held by just two producing wells.

Vehicle Access:

The road layer is detailed in the compartment packet. Large areas of the compartment are designated as closed roads to allow for walk in hunting access. As well the old railroad grade is designated as a non motorized trail with exception of snowmobiles in the winter.

Survey Needs:

24N, 13W, sections 1 and 12. Survey and delineation of the Consumers Power transmission line ownership.

Recreational Facilities and Opportunities:

Snowmobile trail #3 (Betsie River Snowmobile Trail) runs North/South near the the western edge of the compartment on an old rail grade, as well as along the northern boundary along Countyline Street. Snowmobile trails located on straight, flat, rail grades, and roads tend to invite high speeds, which increases safety concerns. Proposed timber management activities should include trail protection specifications to reduce impacts, increase safety, as well as serve as an example of how silviculturally sound timber harvesting practices can co-exist, and often improve recreation and wildlife experiences for future generations. Non-winter harvests, coupled with a "flush cut" specification adjacent to the trails are suggested considerations. Deer and ruffed grouse hunting opportunities are important to many local hunters. (TMN 3/13)

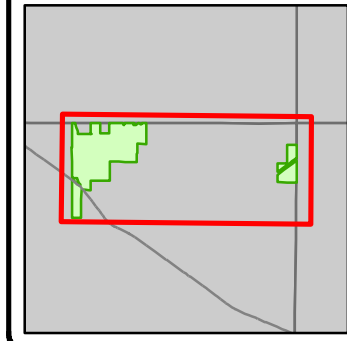
Fire Protection:

Copemish-Cleon Volunteer Fire Department, and Traverse City DNR office. Limited potential for large fires in this cover type.

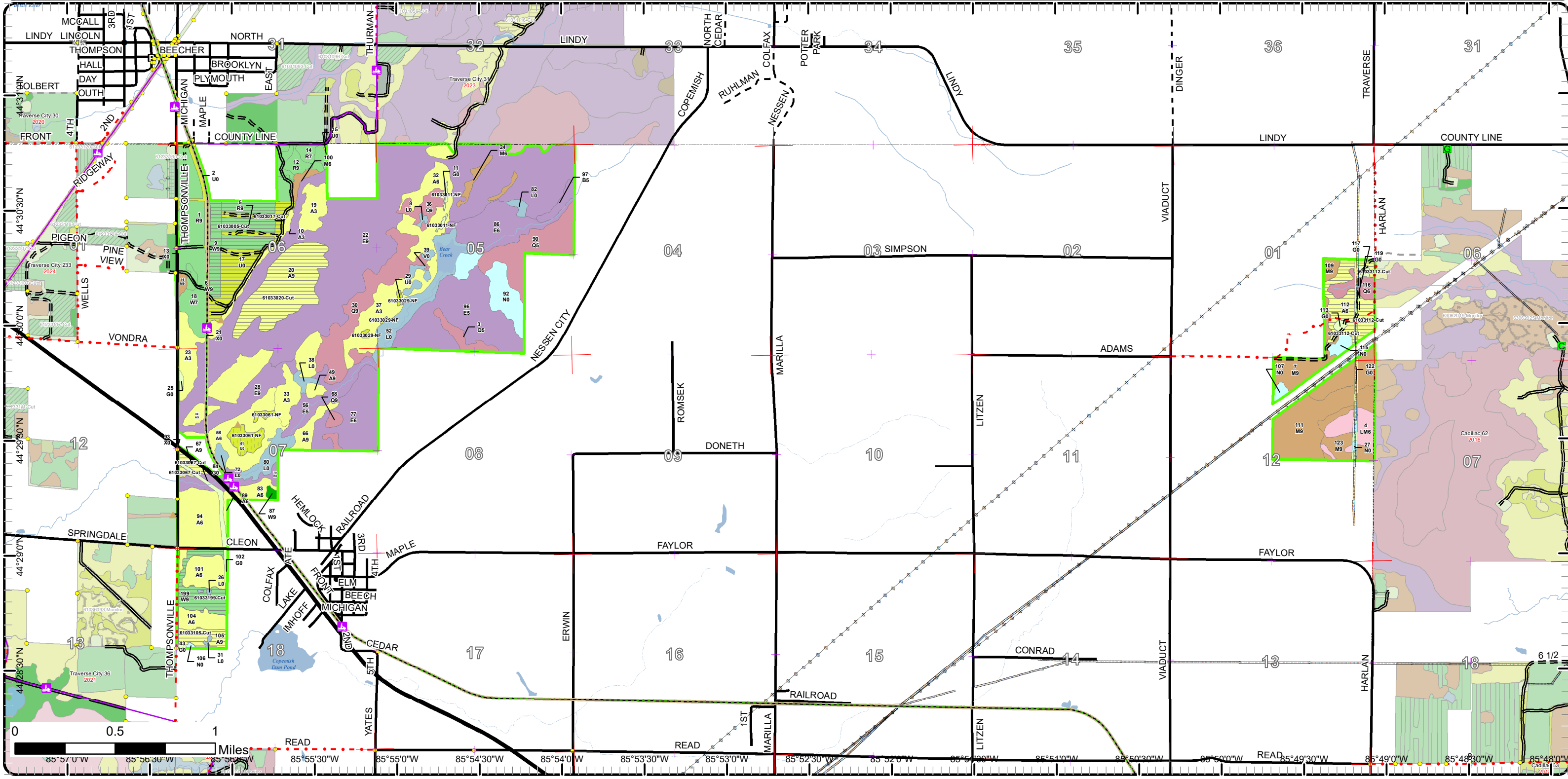
Additional Compartment Information:

Cover Type & Treatments Map

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 T24N-R13W Sec. 12 and 18
 County: Manistee
 Unit: Traverse City
 Mgmt Area: Kalkaska Sandy
 Moraines
 YOE: 2025
 Acres: 1851.3 GIS Calculated
 Examiner: Joe Ventimiglia
 Map Revised: 5/8/2023
 Map Phase: Web - Post



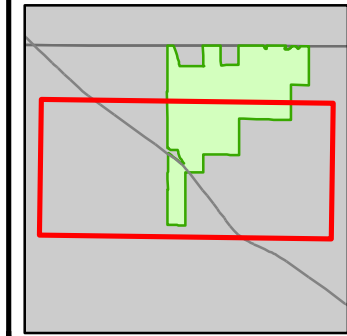
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- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Hiking Trails
- Designated Bicycle Trails
- Designated Multi-Use Trails
- Designated Snowmobile Trails
- Designated Rail Trail
- Berms
- Gate
- Bridges
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



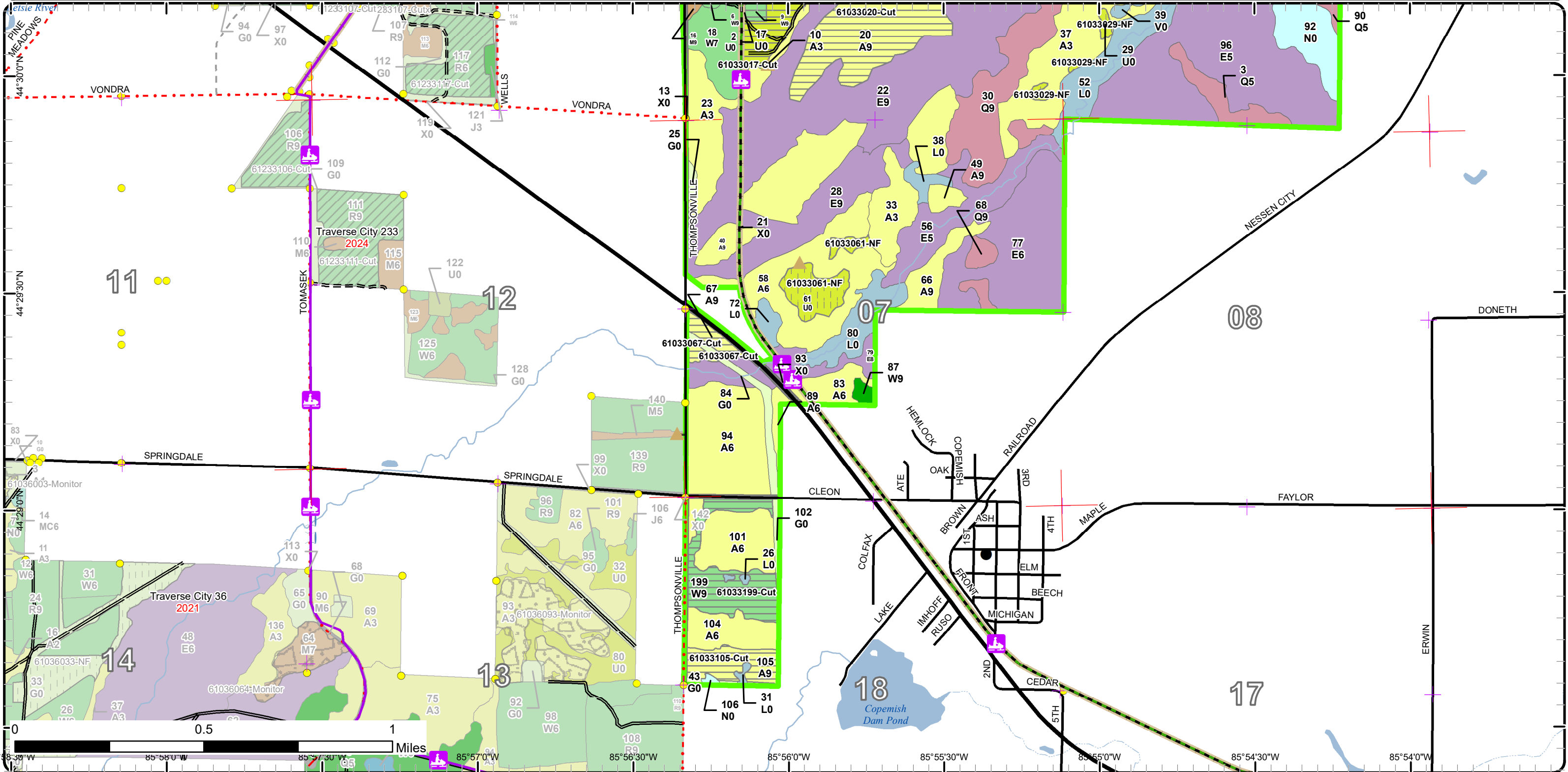
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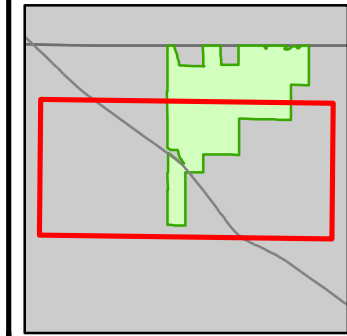


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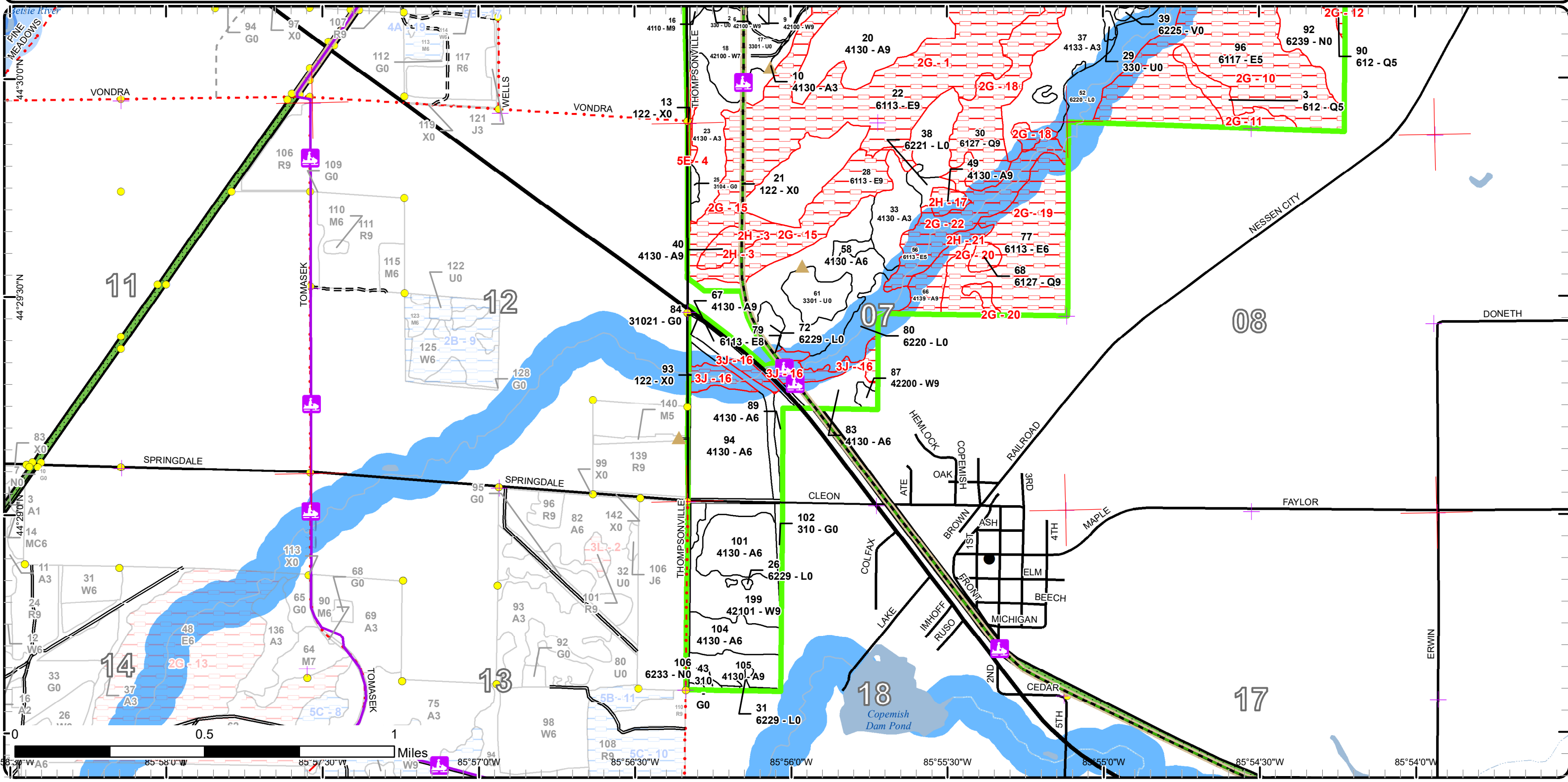


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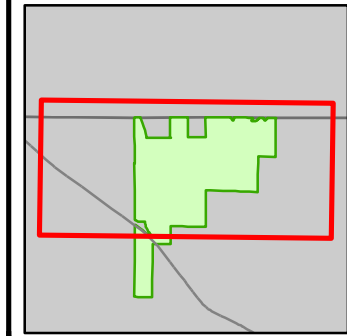


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- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
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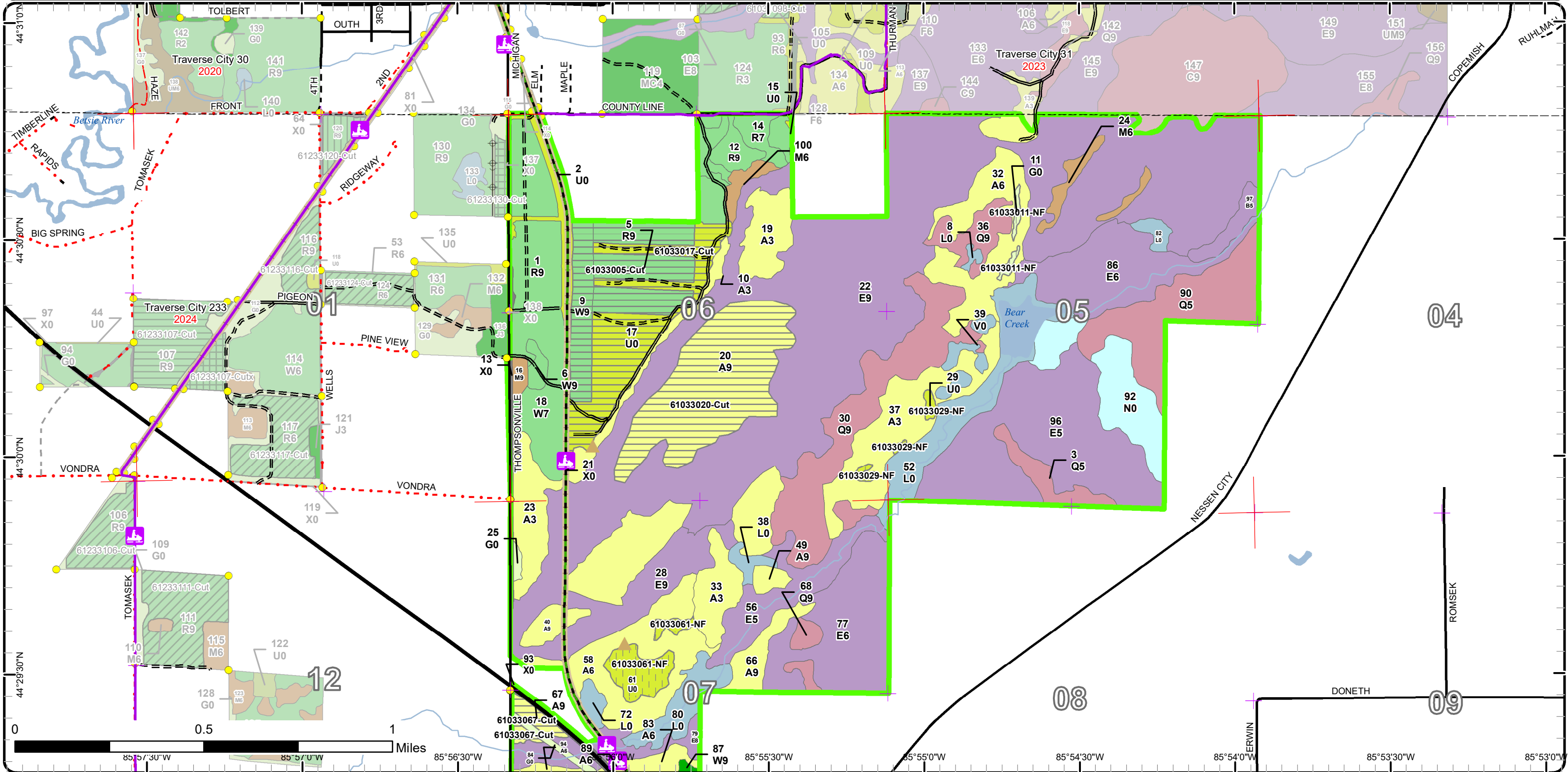


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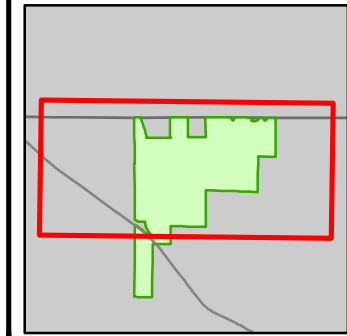


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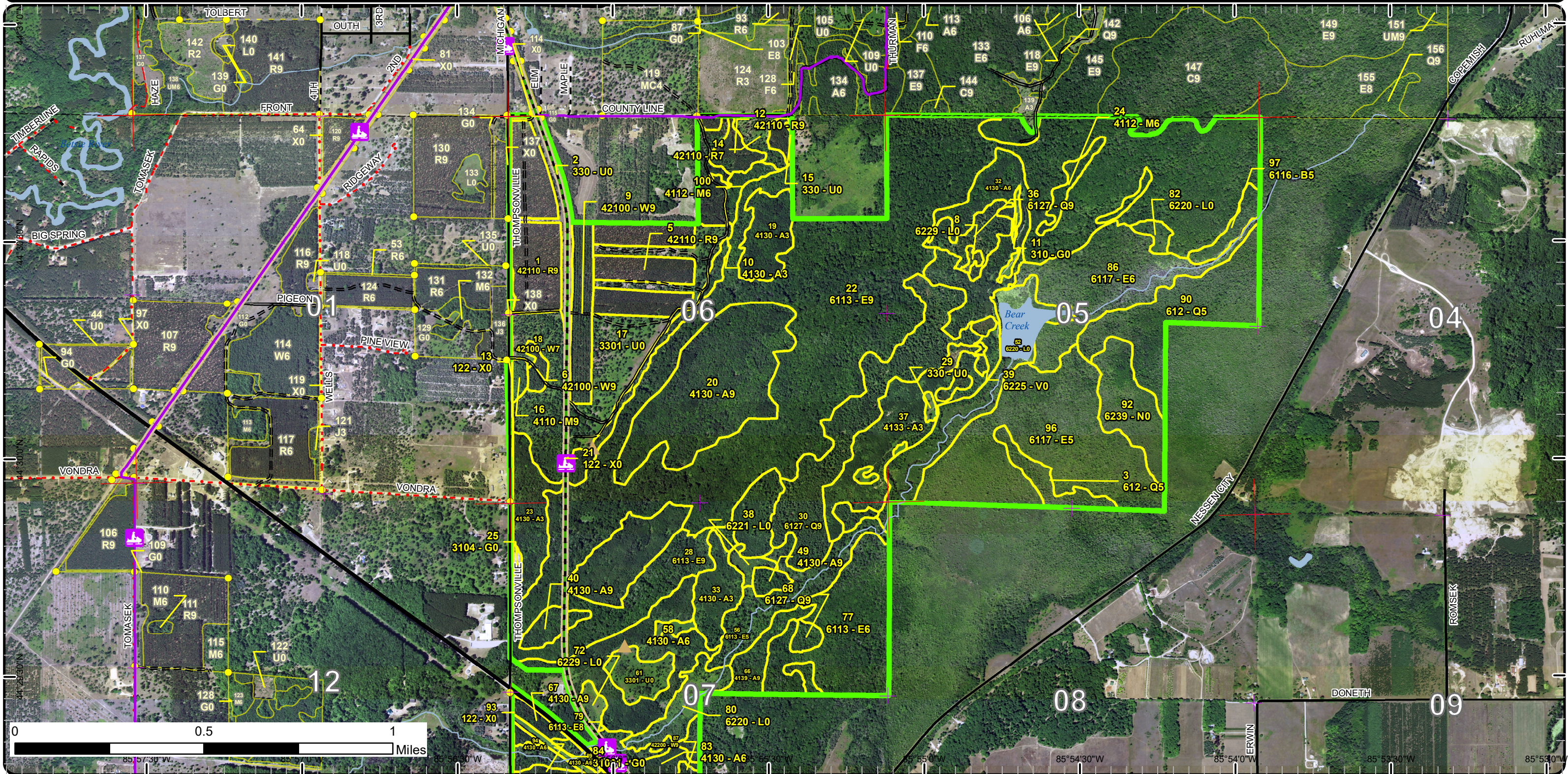


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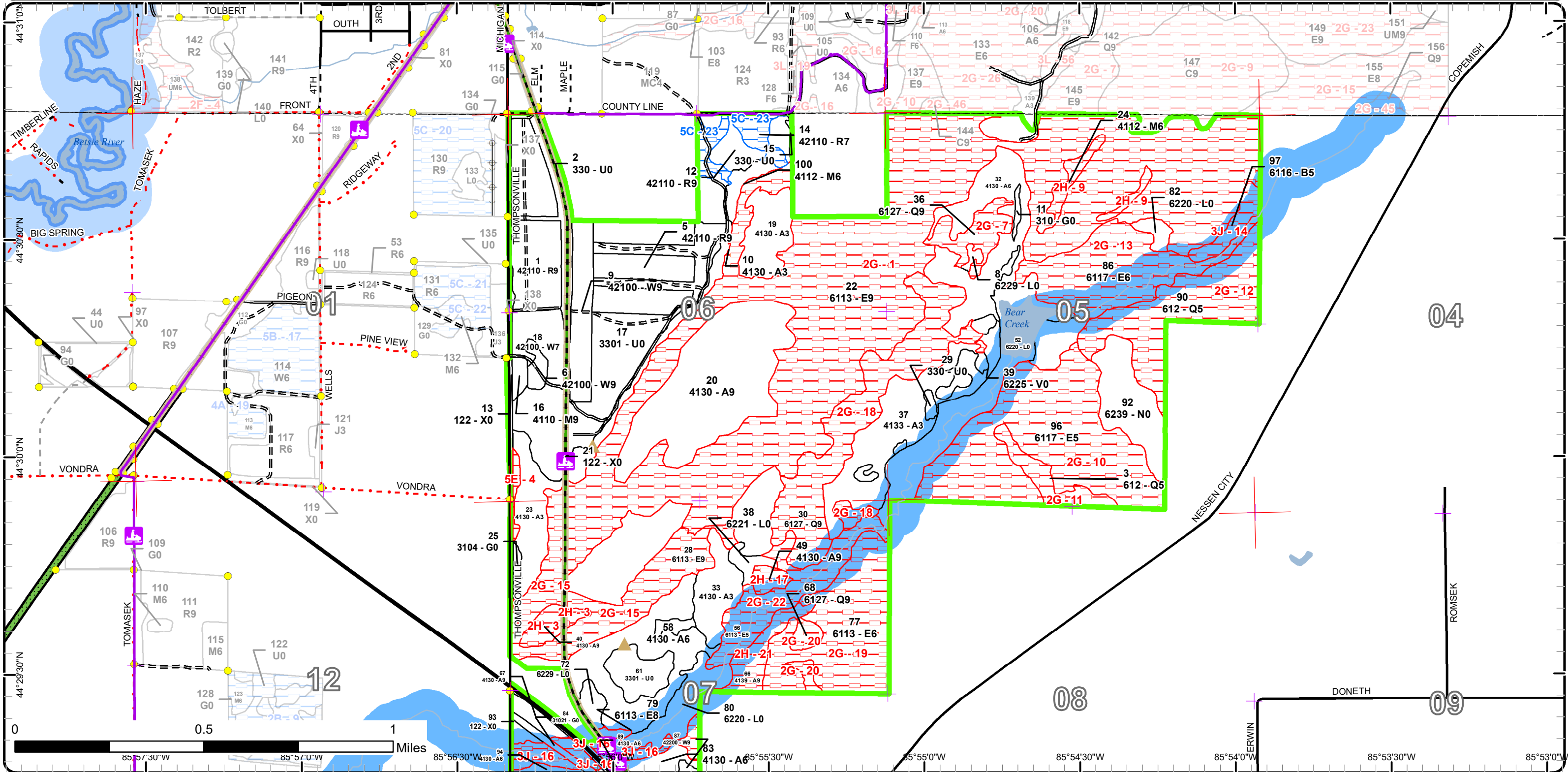
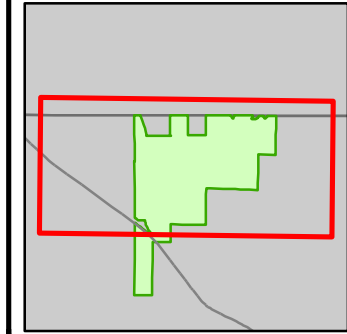


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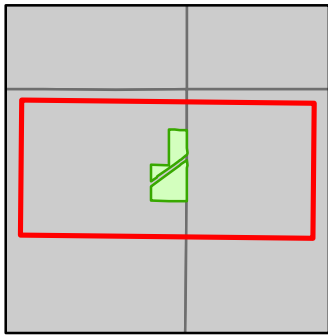


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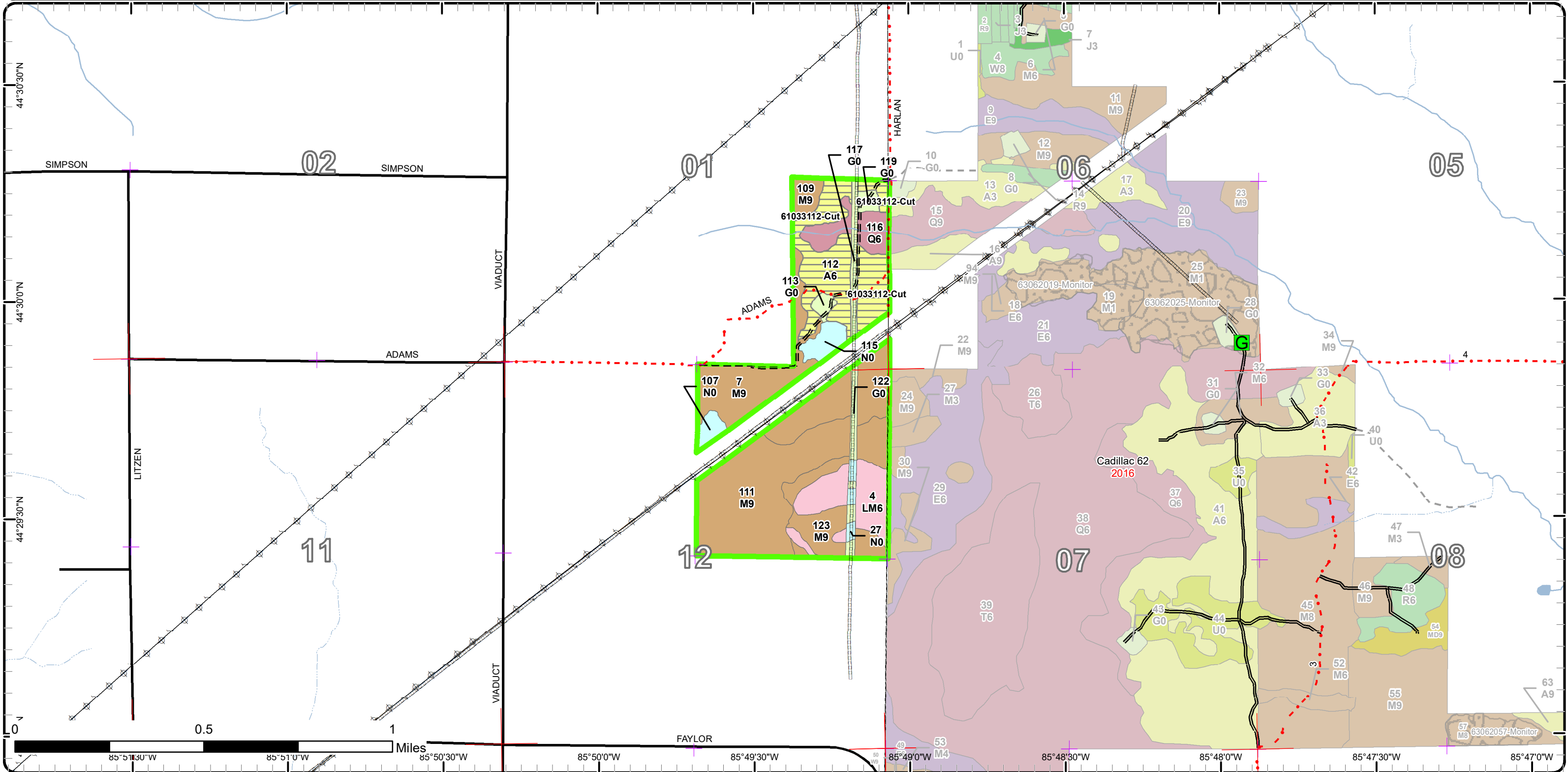


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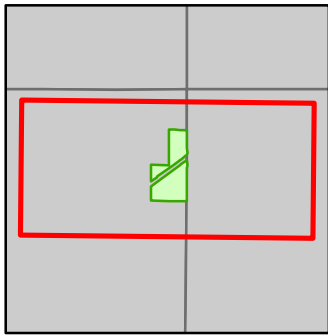


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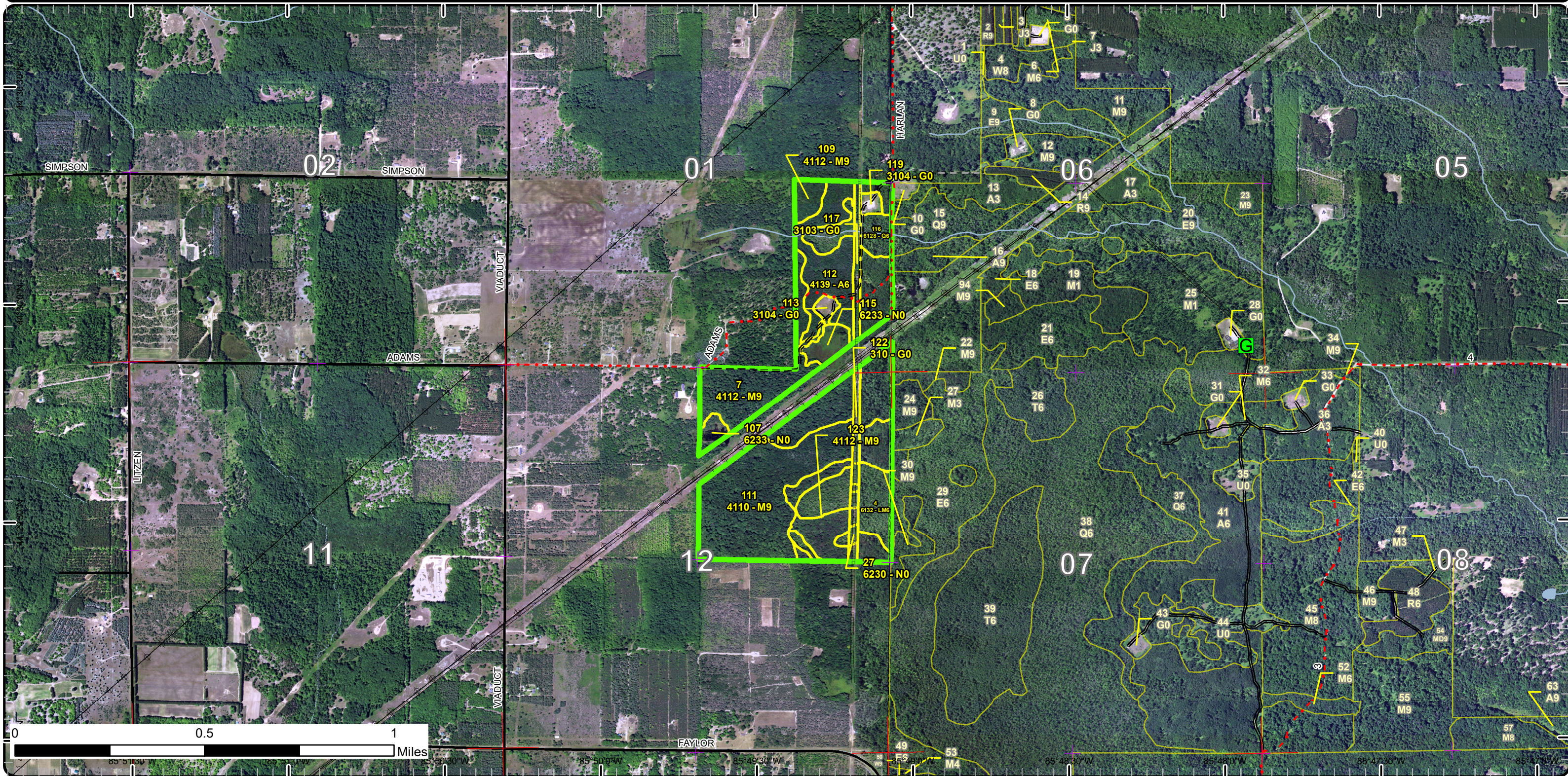


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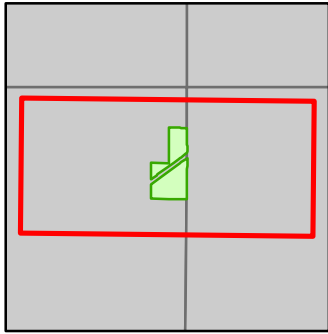


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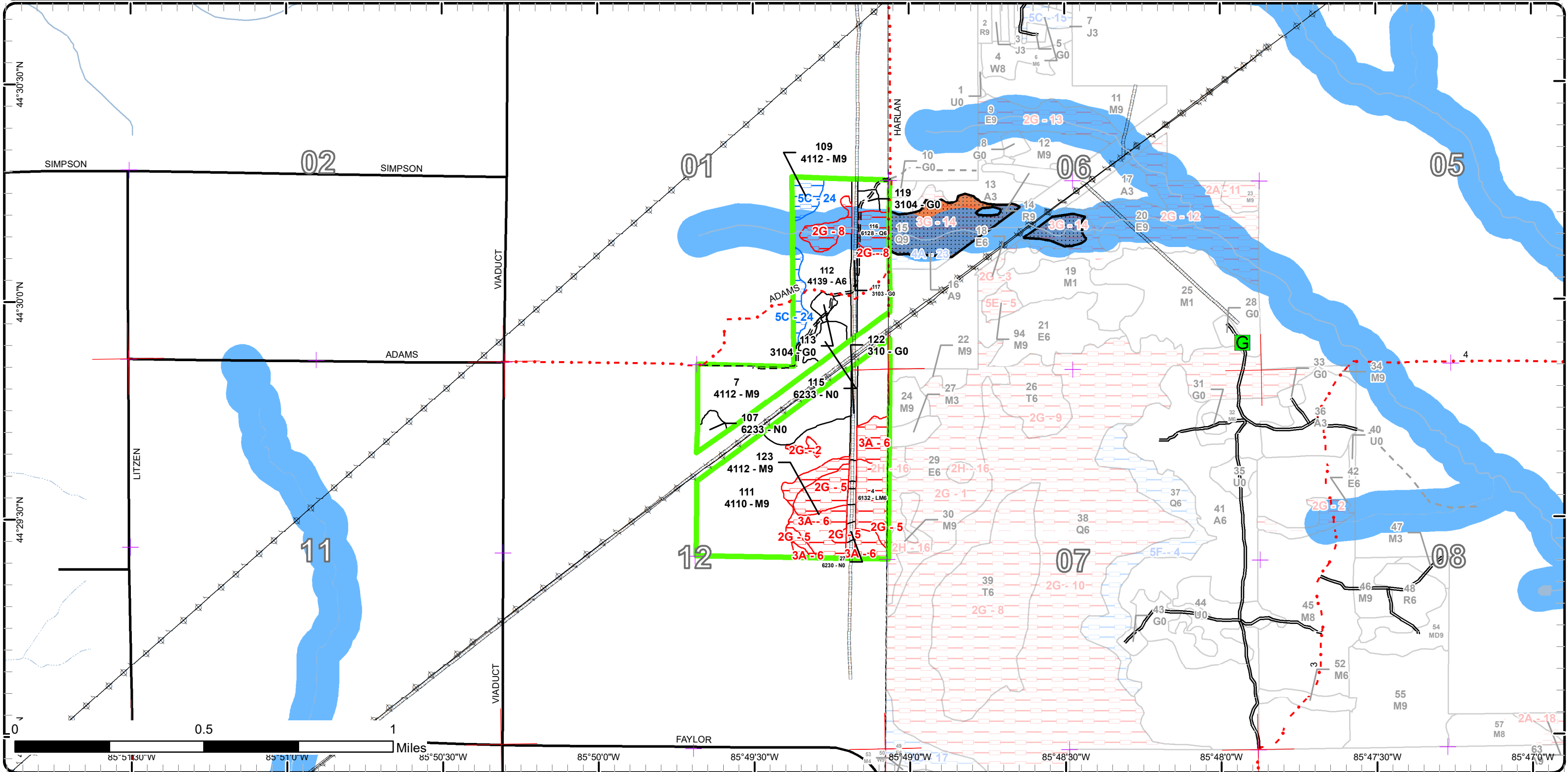


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- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- Stand Boundaries
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Other Habitat Area



The following reports from the Inventory are attached:

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

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

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

Report 1 – Total Acres by Cover Type and Age Class



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	49	28	75	101	176	9	11	4	0	0	0	0	0	0	0	0	6	457
Bog	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Herbaceous Openland	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Low-Density Trees	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Lowland Conifers	0	0	0	0	0	0	0	0	61	0	70	6	11	0	0	0	0	0	148
Lowland Deciduous	0	0	0	0	0	0	0	0	49	55	96	367	0	0	0	0	0	90	657
Lowland Mixed Forest	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	20
Lowland Shrub	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Marsh	44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44
Northern Hardwood	0	0	0	0	0	0	5	8	0	11	0	122	0	0	0	0	0	0	146
Paper Birch	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	7
Red Pine	0	0	0	0	0	0	0	84	0	12	0	0	0	0	0	0	0	0	96
Urban	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
White Pine	0	0	0	0	0	0	0	73	0	2	0	0	0	0	0	0	0	0	75
Total	245	49	28	75	101	176	41	176	114	80	166	495	11	0	0	0	0	96	1850



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2025

Acres of Harvest

Compartment 33
Total Compartment Acres: 1,851

Commercial Harvest - 245
Harvests with Site Condition - 0
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	127	0	0	0	0	0	0	0	0	127
Low-Density Trees	45	0	0	0	0	0	0	0	0	45
Red Pine	50	0	0	0	0	0	0	0	0	50
White Pine	23	0	0	0	0	0	0	0	0	23
Total	245	0	0	0	0	0	0	0	0	245

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	245	0	0	0	0	0	0	18	0	263
Next Step	0	240	95	0	95	340	0	0	0	769
Total	245	240	95	0	95	340	0	18	0	1032



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Proposed Treatments:

5	61033005-Cut	49.8	42110 - Planted Red Pine	Sawtimber Well	64	111- 140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final Harvest all trees 1 inch in diameter and up. Require chipping. No retention due to management objective. <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial <u>Treatments:</u> Regen(3yr); SitePrep, Roller Chopping; SitePrep, Roller Chopping</p> <p><u>Acceptable</u> Planted Red Pine. <u>Regen:</u></p> <p><u>Other</u> Moving away from strip planation to have one nice block. Replant along with stand 17 to create one future stand. Require low stumps to <u>Comment:</u> prepare for planting.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
11	61033011-NF	2.1	310 - Herbaceous Openland	Nonstocked	0		NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is a traditional wildlife planting. Disk in crab/quack grass, plant to annual rye for several years and then convert back to a <u>Specs:</u> pasture mix (i.e. clover/alfalfa). Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <u>Regen:</u></p> <p><u>Other</u> <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
17	61033017-Cut	45.1	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest all trees 1 inch and up. No retention due to management objective. Require chipping. <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial <u>Treatments:</u> Regen(3yr); SitePrep, Roller Chopping</p> <p><u>Acceptable</u> Planted red pine with minor mix of other species although main objective is red pine. <u>Regen:</u></p> <p><u>Other</u> Sale will only be merchantable when sold with adjacent planted pine. Point of including this to main one continuous pine plantation as <u>Comment:</u> opposed to current strip planation's.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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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20	61033020-Cut	72.4	4130 - Aspen	Sawtimber Well	49		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final Harvest leave retention 3 to 5 percent of acreage in form of island or edge left out. Leave all white pine.

Specs:

As well per wildlife drop a handful of red line trees into stand 22 along east line for wildlife habitat.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen primary with mix of red maple and white pine accepted as well.

Regen:

Other Map retention in MIFI. Access will need to be improved with combination of material including gravel. May need installation of another
Comment: culvert as well. Improve crossing to south as this crossing will be needed to access stand 58 in future as well. Close access with berm or gate after crossing improved. Add grouse spec.

Site Condition

Proposed Start Date: 10/1 /2024

29	61033029-NF	2.8	330 - Low-Density Trees	Nonstocked	0	Unspec ified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
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Prescription This opening is a traditional wildlife planting. Disk in crab/quack grass, plant to annual rye for several years and then convert back to a
Specs: pasture mix (i.e. clover/alfalfa). Periodic maintenance such as mowing, fertilization, reseeding, and/or removal of woody encroachment.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

61	61033061-NF	13.5	3301 - Low Density Deciduous Trees	Nonstocked			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
Specs: shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Work around some of the existing beneficial vegetation to create a wildlife food plot of appropriate herbaceous species suited to site and soil conditions, with fertilization. Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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	61033067-Cut	5.5	4130 - Aspen	Sawtimber Well	68	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final Harvest leave all conifer. No retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Aspen primarily with some maple.

Regen:

Other Access off powerline ROW may need driveway permit from county road commission. Include with other stand too small to sell on its own.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

105	61033105-Cut	12.4	4130 - Aspen	Sawtimber Well	48		Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Final harvest leave white pine over 10 inches in diameter as well as buffer along small bog in north end.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Aspen with red maple and white pine accepted as well.

Regen:

Other No retention due to small size. Include with stand to north in one sale. Add Grouse Spec.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

112	61033112-Cut	36.6	4139 - Aspen, Mixed Deciduous	Poletimber Well	48	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Final Harvest expect leave any pine or hemlock. As well leave retention island 3 to 5 percent of total acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Aspen primary with mix of maple and pine accepted as well.

Regen:

Other Protect any wet depressions in stand as needed. Contact Consumers Power to see if small trip of aspen along in their ROW can be cut along with this sale. Access from the north, logger will need to protect any and all underground pipelines. Add grouse spec.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

199	61033199-Cut	22.9	42101 - Planted White Pine, Mixed Deciduous	Sawtimber Well	63	141-170	Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
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Prescription Final Harvest with retention. Leave retention in island or small edge taken out of sale. As well leave a few scattered wind firm white pine.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Aspen dominates with healthy mix of white pine as well.

Regen:

Other Do not leave enough white pine to be considered future overstory of stand. Idea is to leave a handful in stand to leave some structure as well as help seed in some conifer to stand. Add Grouse Spec.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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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Total Treatment
Acreage Proposed: 263.1

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 33
Year of Entry: 2025

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

				Dominant Site Conditions	4A	5C	2G	2H	3A	3G	3J	5E
457	434	0	23	Aspen	0			21				2
7	7	0	0	Bog								
26	26	0	0	Herbaceous Openland								
73	73	0	0	Low-Density Trees								
148	0	0	148	Lowland Conifers	0		148			0		
656	0	0	656	Lowland Deciduous			640				16	
20	0	0	20	Lowland Mixed Forest			20					
66	66	0	0	Lowland Shrub								
44	44	0	0	Marsh								
146	105	9	32	Northern Hardwood		9	1	8	24			
7	0	0	7	Paper Birch							7	
96	84	12	0	Red Pine		12						
29	29	0	0	Urban								
75	75	0	0	White Pine								
1,851	943	21	887	Total Forested Acres	0	21	810	29	24	0	24	2
	51%	1%	48%	Relative Percent								

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	367	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: vernal pond.							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 33
Year of Entry: 2025

3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Island with access compromised by rail trail. Plans to pave trail soon will eliminate reasonable access.							
4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: visual buffer and area retention along Thompsonville rd.							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3A: Conservation Values incompatible with harvest at this time	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Unique stand with considerable hemlock component. Considering this hemlock i recommend excuding this area from commercial harvest and letting natural succession take place.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 33
Year of Entry: 2025

9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small acreage and access to difficult to be worth effort for these small islands.							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	96	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 33
Year of Entry: 2025

14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	49	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
17	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	61	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Overall too wet although there are pockets along edges that could be managed as adjacent stands are harvested.							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 33
Year of Entry: 2025

19	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	28	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
23	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Hold this treatment until stand 12 is treated again.							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Joe Ventimiglia : Examiner

Compartment: 33
Year of Entry: 2025

24	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
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Comments:

Hold for this entry as adjacent stand is being final harvested. Look to treat stand next entry.

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
1	42110 - Planted Red Pine	Sawtimber Well	34.8	64	111-140	N/A	Stand was planted in 1959.																																																										
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3	612 - Lowland Coniferous Forest	Poletimber Medium	10.5	97		N/A																																																											
4	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	20.4	55		N/A	Wet stand, lots of variability in species composition. Lowland conifers providing lots of cover throughout stand. Trail running down powerline basically terminates adjacent to this stand due to standing water. springs, marsh marigolds, but no flowing water, bisected by powerline,																																																										
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6	42100 - Planted White Pine	Sawtimber Well	3.4	64	141-170	N/A	Stand was planted in 1959.																																																															
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7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	44.6	102	81-110	N/A	Stand was originally thinned back in early 1960s... Stand was thinned in 1989. Stand was thinned again in 2005. Portion of sale from 2005 went into Wexford County stand 24. Decent quality hardwood, not quite as nice as stand 111 to south. Mostly red maple but strong mix of sugar maple along with some beech/cherry. Like stand to south surprisingly decent maple sapling regeneration including sugar maple.																																																															
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8	6229 - Mixed lowland shrub	Nonstocked	1.2	0		No																																																																
9	42100 - Planted White Pine	Sawtimber Well	17.2	64	141-170	N/A	Stand was planted in 1959. Stand was row thinned(take two leave four) in 2008. This harvest created a blanket of white pine in understory.																																																															
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10	4130 - Aspen	Sapling Well	11.6	6	Immature	N/A	Final harvested in winter of 2017. All sugar maple/conifer was left.																																																															
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11	310 - Herbaceous Openland	Nonstocked	2.1	0		Managed Opening	Old wildlife opening.																																																															
12	42110 - Planted Red Pine	Sawtimber Well	16.8	62	81-110	N/A	Stand was planted in 1961. Stand broken into 3 pockets.																																																															
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13	122 - Road/Parking Lot	Nonstocked	8.2			No																																																																



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14	42110 - Planted Red Pine	Sawtimber Poor	12.3	84	1-50	N/A	Stand was planted in 1939.																																									
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15	330 - Low-Density Trees	Nonstocked	0.6	0		No	Opening along private. Driveway trespass?																																									
16	4110 - Sugar Maple Association	Sawtimber Well	2.5	84	81-110	N/A	Very nice quality sugar quality stand just into log size class. Few red maples in stand as well as a few hemlock.																																									
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17	3301 - Low Density Deciduous Trees	Nonstocked	45.1		Unspecified	No	Old opening that is slowly filling in with mixed red and white pine from adjacent stand. Some maple and cherry as well. Very close to considering this a forested stand.																																									
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18	42100 - Planted White Pine	Sawtimber Poor	29.3	64	1-50	N/A	Stand was interplanted with White pine in 1959.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
19	4130 - Aspen	Sapling Well	16.8	5	Immature	N/A	Stand was final harvested in 2018 any sugar maple and conifer was left.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		30	Sapling	1					
Quaking Aspen		57	Sapling	1	5				
Sugar Maple		8	Pole/Sapling	5					
Bigtooth Aspen		5	Sapling	1					
20	4130 - Aspen	Sawtimber Well	72.4	49		N/A	Stand final harvested in 1974. Came back well with aspen/red maple. Some white pine scattered.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log/Pole	10		Beech	Low	5 - 10 feet	Sapling
White Pine		5	Log/Pole	12		Red Maple	Medium	Variable	Sapling
Paper Birch		5	Pole/Log	9					
Quaking Aspen		80	Log/Pole	10	49				
Descent quality aspen stand with difficult but doable access. Stand is seasonally wet particularly along south edges. Two access points that need work along west edge.									
21	122 - Road/Parking Lot	Nonstocked	8.9			No	Old rail grade, now snowmobile trail. This stand is grade itself, adjacent open ROW is typed in separate stands. Future plans to pave this for non-motorized use.		
22	6113 - Lowland Maple	Sawtimber Well	366.8	104	81-110	N/A	Large lowland maple complex. Stand is 80 to 90 percent flooded with standing water at time of inventory. No history of past management as a result of lowland nature of stand. No streams noted but water flows through stand. Some pockets of smaller red maple poles but overall stand is log sized. Unique to see maple of this quality and size in such lowland conditions. There are a few upland islands within stand too small to map.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		70	Log/Pole/XLog	14	104	Red Maple	Low	Variable	Sapling
Quaking Aspen		10	Log/Pole	13		Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
Black Ash		2	Pole	8		Hazelnut (American)	Low	5 - 10 feet	Tall Shrub
Northern White Cedar		5	Log/Pole	11					
White Pine		1	Log/XLog	15					
Hemlock		2	Pole/Log	8					
Silver Maple		10	Log/XLog	15					
23	4130 - Aspen	Sapling Well	20.1	5	Immature	N/A	Aspen stand final harvested in summer 2018 white pine and sugar maple left. Retention left along main road to west.		
Canopy Species		% Cover	Size Class	DBH	Age				
Bigtooth Aspen		23	Sapling	1					
White Pine		3	Log/Pole	14					
Black Cherry		5	Pole/Sapling	4					
Red Maple		8	Sapling	1					
Sugar Maple		6	Sapling/Pole	4					
Quaking Aspen		55	Sapling	1	5				
24	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.6	65	81-110	N/A	Two small isolated ridges of primarily red maple. These are upland ridge in sea of lowland hardwood.		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Maple		80	Pole	8	65				
Quaking Aspen		15	Pole/Log	9					
Northern White Cedar		5	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
25	3104 - Degraded	Nonstocked	1.2																																																	
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26	6229 - Mixed lowland shrub	Nonstocked	0.6	0		No	Small lowland pockets in stands.																																													
27	6230 - Cattail	Nonstocked	2.1			No	Low spots in power ROW.																																													
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28	6113 - Lowland Maple	Sawtimber Well	48.7	78	81-110	N/A	Lowland maple with standing water in majority of stand. Unique stand similar to stand 22. Could combine in future. No history of recent management in this stand.																																													
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29	330 - Low-Density Trees	Nonstocked	2.8	0	Unspecified	No	Small openings, may have been kept open by Wildlife division in the past.																																													
30	6127 - Lowland Pine	Sawtimber Well	60.8	73	81-110	N/A	Natural white pine stand. Stand is lowland overall but has some upland portions particularly on the south end. Stand appears to be old bog that overtime filled in with white pine. Stand provides good thermal cover.																																													
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31	6229 - Mixed lowland shrub	Nonstocked	0.9	0		No	Mixed lowland, few trees scattered otherwise lowland shrub.																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
32	4130 - Aspen	Poletimber Well	41.7	47		N/A	Majority of stands origin results from final harvest in 1975. Although edges of upland red and white pine left included in this stand. Upland overall but lowland pockets present in stand.																																															
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33	4130 - Aspen	Sapling Well	28.1	17	Immature	N/A	Stand was final harvested in 2006. All conifer and any oak were left. Access came from county road commission to south. White pine left; this component is concentrated in north end.																																															
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36	6127 - Lowland Pine	Sawtimber Well	12.2	98	81-110	N/A	Mixed red and white pine stand. Lowland character throughout a couple upland high spots but overall not suitable for commercial management. Red pine concentrated in north end with more white pine in south.																																															
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37	4133 - Aspen, Mixed Pine	Sapling Well	39.9	26	Immature	N/A	Stand was final harvested in 1997. Aspen came back well with white pine also seeding in well in spots.																																															
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38	6221 - Fen	Nonstocked	3.6			No																																																
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39	6225 - Bog	Nonstocked	6.5			No	Open bog with shrub/tree fringe, a few white pine saplings and poles in middle. "Viburnum" is wild raisin (currently not in pick-list).																																								
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40	4130 - Aspen	Sawtimber Well	8.5	58		N/A	Two part stand most of stand is island surrounded by wet. The other portion of stand is small sliver adjacent to private. Decent quality aspen and red maple, seasonally wet but overall upland stand for area.																																								
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43	310 - Herbaceous Openland	Nonstocked	1.2			No	Powerline R.O.W. Undulating between dry hills and wetlands. Slightly more wetland acreage. Likely maintained by utility company.																																								
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49	4130 - Aspen	Sawtimber Well	3.7	76		N/A	Isolated island of mature aspen/pine and red maple.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
52	6220 - Alder/willow	Nonstocked	37.8			No	2 red-shouldered hawks nearby. Wet. Need waders to cross stream. A few pole snags. "Viburnum" = wild raisin.																																																																
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56	6113 - Lowland Maple	Poletimber Medium	28.1	68	1-50	N/A	Lowland hardwood buffering stream. Sparse stand. No as well forested as some of other e types in this area.																																																																
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58	4130 - Aspen	Poletimber Well	63.5	38		N/A	Stand was final harvests in mid 1980s, at which time it was privately owned. Tract was acquired by State in 1993. Poor quality sparse aspen in pockets, overall upland stand with some lowland along edges.																																																																
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61	3301 - Low Density Deciduous Trees	Nonstocked	13.5			No	Formally managed wildlife opening. No evidence of recent management.																																																																
66	4139 - Aspen, Mixed Deciduous	Sawtimber Well	10.8	68	Unspecified	N/A	From records it appears stand was attempted to be harvested in 1970s although it looks like it never occurred. Access would be from south.																																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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67	4130 - Aspen	Sawtimber Well	5.5	68	81-110	N/A	Aspen stand overall but northwest portion of stand is maple stand, primarily red maple. Too small to manage on its own or split out. Few white pine and hemlock scattered in.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	60	Log	12	68
Red Maple	30	Log	14	
Sugar Maple	5	Log/Pole	12	
Black Cherry	4	Log/Pole	12	
White Pine	1	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	10 - 20 feet	Pole
Black Cherry	Medium	5 - 10 feet	Sapling
Red Maple	Medium	Variable	Sapling

68	6127 - Lowland Pine	Sawtimber Well	5.8	105	111-140	N/A	Got as close as possible to stand in order to estimate BA measurements. Stand was field visited last inventory so no other stage 1 data was edited-(old comment) natural white pine, pocket of conifer cover, wanted to label it "lowland natural white pine" but that is not in the classification key
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole	8	
Hemlock	20	Pole	8	
White Pine	50	XLog/Log	18	105
Northern White Cedar	10	Pole	8	
Quaking Aspen	5	Pole	8	

72	6229 - Mixed lowland shrub	Nonstocked	3.6			No	Marginally a lowland type, some parts are barely upland. Ground cover includes goldenrod on higher areas.
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Sub-Canopy Species	Density	Avg. Height	Size
Alder	Low		Tall Shrub
Meadowsweet	High		Tall Shrub
Willow spp.	Medium		
Mixed Grasses	High		Non-Wood
Balsam Poplar	Low		Sapling

77	6113 - Lowland Maple	Poletimber Well	55.3	80	Unspecified	N/A	From records it appears stand was attempted to be harvested in 1970s although it looks like it never occurred. Another difficult to access stand, crossed PVT from RR grade to view stand from edge. Some large WP, scattered blow down. Black ash is declining, adjusted canopy composition to reflect this. Did not change remaining stage 1 data with the exception of estimating a 1st age.
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Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	4	Pole/Sap/Log	8	
White Pine	5	Log	18	
Quaking Aspen	6	Log/Pole	11	
Red Maple	85	Pole/Log	9	80

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Northern White Cedar	Low	Variable	Pole
Black Ash	Medium	Variable	Sapling

79	6113 - Lowland Maple	Sawtimber Medium	16.3	81	Unspecified	N/A	Lowland Harwood armoring Dutchman Creek.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	75	Log/XLog	14	81
Northern White Cedar	5	Pole/Log	8	
Silver Maple	10	Log/Pole	15	
Quaking Aspen	8	Pole/Log	9	
Black Ash	2	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	Variable	Sapling
Musclewood/Hornbeam	Low	Variable	Tall Shrub
Red Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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80 6220 - Alder/willow Nonstocked 15.0 No

Sub-Canopy Species	Density	Avg. Height	Size
Nannyberry	Low		Tall Shrub
Alder	Trace		Tall Shrub
Pin Oak (Southern)	Low		Sapling
Dogwood (spp.)	Low		Tall Shrub
Mixed Grasses	Full		Non-Wood
Willow spp.	High		
Green Ash	Trace		Sapling

82 6220 - Alder/willow Nonstocked 3.4 No goldenrod present

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full		Tall Shrub
Pin Oak (Southern)	Trace		Log
Basswood	Trace		Seeding
Musclewood/Hornbeam	Trace		Sapling
Black Walnut	Low		Sapling
Eastern Red Cedar	Trace		Pole

83 4130 - Aspen Poletimber Well 8.1 42 N/A Upland overall but lowland character on edges and seasonally.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	85	Pole	7	42
Black Cherry	3	Sapling	3	
White Pine	3	Log	15	
Red Maple	5	Pole	8	
Northern White Cedar	3	Pole/Log	8	
Hemlock	1	Log	13	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling
Red Maple	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
84	31021 - Cool Season Grass	Nonstocked	6.7			No	Powerline R.O.W. A middle section NW of elbow is lowland shrub and sedge.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Willow spp.	Trace			
								Spotted Knapweed	Low		Non-Wood	
								Willow spp.	Trace			
								Mixed Grasses	High		Non-Wood	
								Honeysuckle (spp.)	Trace		Tall Shrub	
								Meadowsweet	Low		Tall Shrub	
								Sedges	Low		Non-Wood	
								Bracken Fern	Medium		Non-Wood	
								Willow spp.	Trace			
								Blackberry/Raspberry	Trace		Tall Shrub	
								Poverty Grass	Medium		Non-Wood	
Mixed Fruiting Shrubs	Low		Non-Wood									
86	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	45.7	55		N/A						
87	42200 - Natural White Pine	Sawtimber Well	2.1	86	81-110	N/A	Small white pine grove with a few aspen and cedar mixed in. No planting records found.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	10	Log/Pole	10	
								Northern White Cedar	10	Log/Pole	11	
								White Pine	80	Log/XLog	15	86
89	4130 - Aspen	Poletimber Well	4.5	47		N/A	Small, narrow aspen stand adjacent to powerline ROW and PVT. Stand is nearly log size overall.					
89	4130 - Aspen	Poletimber Well	4.5	47		N/A						
								Canopy Species	% Cover	Size Class	DBH	Age
								Red Maple	5	Log/Pole	10	
								Black Cherry	5	Pole/Log	8	
								White Pine	1	Pole/Log	9	
Bigtooth Aspen	89	Pole/Log	9	47								
89	4130 - Aspen	Poletimber Well	4.5	47		N/A						
								Sub-Canopy Species	Density	Avg. Height	Size	
							White Pine	High	Variable	Sapling		
							Black Cherry	Low	Variable	Sapling		
90	612 - Lowland Coniferous Forest	Poletimber Medium	47.6	97		N/A						
92	6239 - Mixed Emergent Wetland	Nonstocked	32.9			No	Stand was cover typed from adjacent, similar cover on private land along county road to east. Lots of cattail, but not quite 60%. Herbs = joe pye weed, mint, boneset, poison ivy, jewelweed, many others.					
93	122 - Road/Parking Lot	Nonstocked	11.6			No	M-115, Springdale and Thompsonville Roads					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
94	4130 - Aspen	Poletimber Well	37.7	33		N/A	Stand was final harvested in 1990. White pine left at that time. White pine left mostly concentrated in south-middle area of stand. Upland overall but more lowland character in north end. Old RR grade runs through stand.																																											
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96	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	95.5	97		N/A																																												
97	6116 - Lowland Birch	Poletimber Medium	7.2	52		N/A	Band of solid white birch saplings/small poles parallel to creek; BA about 50; 39' tall. "5% black ash" actually a mix of ash/elm/red maple. Habitat cut in 1971?																																											
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100	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.9	52	51-80	N/A	Appears to be old poor-quality aspen that through natural succession has fallen out and been overtaken by red maple. Mostly pole red maple but a few large red maple on west edge.																																											
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101	4130 - Aspen	Poletimber Well	21.6	27	Immature	N/A	Stand was final harvested in 1996. Came back well to aspen, some lowland character in pockets but overall upland. Some pockets of nice aspen and other look little rough.																																											
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102	310 - Herbaceous Openland	Nonstocked	2.4			No	Powerline ROW. Some lowland character in 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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104 4130 - Aspen Poletimber Well 13.6 27 Immature N/A Stand was final harvested in 1996. Came back well to aspen some white pine left at time of harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	5	
Bigtooth Aspen	40	Pole	6	
White Pine	5	Log/Pole	11	
Black Cherry	5	Pole/Sapling	5	
Quaking Aspen	45	Pole/Sapling	5	27

105 4130 - Aspen Sawtimber Well 12.4 48 N/A Stand was final harvested in 1975. Aspen dominated stand with some white pine scattered in. Lowland bog in north end not mapped otherwise upland stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole	8		Red Maple	Medium	10 - 20 feet	Sapling
Quaking Aspen	40	Log/Pole	11		Black Cherry	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	49	Log/Pole	11	48	White Pine	Low	Variable	Sapling
White Pine	5	Log/Pole	11					
Black Cherry	2	Pole/Log	8					
Paper Birch	1	Pole/Log	9					

106 6233 - Wet Meadow Nonstocked 0.6 No Powerline R.O.W. Wet portion.

Sub-Canopy Species	Density	Avg. Height	Size
Broom Sedge	Trace		Non-Wood
Spotted Knapweed	Low		Non-Wood
Bracken Fern	Trace		Non-Wood
Blueberry/Bilberry/Cranberry	Trace		Tall Shrub
Sedges	High		Non-Wood
Mixed Grasses	Medium		Non-Wood
Blackberry/Raspberry	Trace		Tall Shrub
Chokeberry	Trace		Tall Shrub
Leatherleaf	Low		Tall Shrub

107 6233 - Wet Meadow Nonstocked 3.2 No Likely standing water in spring. Trace of iris.

Sub-Canopy Species	Density	Avg. Height	Size
Meadowsweet	Trace		Tall Shrub
Willow spp.	Low		
Willow spp.	Low		
Michigan Holly	Low		Tall Shrub
Sedges	High		Non-Wood
Mixed Grasses	High		Non-Wood
Willow spp.	Low		
Reed Canary Grass	Low		Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																							
109	4112 - Maple, Beech, Cherry Association	Sawtimber Well	8.9	85	111-140	N/A	Small block of hardwood broken into two blocks along private. Southern block is little, larger diameter and structure but included together due to small size and likelihood of be treated together in the future.																																																							
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111	4110 - Sugar Maple Association	Sawtimber Well	54.0	102	81-110	N/A	Stand was originally thinned in 1960 then again in 1998. Stand was thinned again for third time in 2017.																																																							
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112	4139 - Aspen, Mixed Deciduous	Poletimber Well	36.6	48	Unspecified	N/A	Stand was final harvested in 1974.																																																							
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Willow spp.	Low																																																													
Michigan Holly	Trace		Tall Shrub																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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116 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 11.0 114 N/A Wet stand divided by powerline ROW. Mixed species composition, pockets of larger diameter trees with higher stocking. Also areas of low stocking, poor quality, low DBH individuals. As noted, there is a small stream flowing E?W through stand, overall area is quite wet-seeps and stream flow. large amount of dead and down, regen pockets and age classes as the result of numerous blow downs, springs/seeps, small creek flowing west to east originates west of powerline,

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	5	Log/XLog/Pole	12		Tag Alder	Low	5 - 10 feet	Tall Shrub
White Pine	5	Log	18		Northern White Cedar	Low	5 - 10 feet	Sapling
Northern White Cedar	15	Pole	8		White Pine	Low	5 - 10 feet	Sapling
Hemlock	30	Pole/Log	9	114	Balsam Fir	High	5 - 10 feet	Sapling
Red Maple	20	Log/Pole	12					

117 3103 - Rubus-Fern Nonstocked 4.4 No Powerline ROW.

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Trace		Non-Wood
Spotted Knapweed	Low		Non-Wood
Blackberry/Raspberry	Medium		Tall Shrub
Bracken Fern	High		Non-Wood
St. Johns Wort	Low		Non-Wood
Mixed Grasses	Low		Non-Wood

119 3104 - Degraded Nonstocked 2.0 Active site.

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Legumes	Trace		Non-Wood
Spotted Knapweed	High		Non-Wood
Bracken Fern	Medium		Non-Wood

122 310 - Herbaceous Openland Nonstocked 4.4 No Upland portions of power ROW.

Sub-Canopy Species	Density	Avg. Height	Size
Bracken Fern	High		Non-Wood
Cattail spp.	Low		Non-Wood
Blackberry/Raspberry	High		Tall Shrub
Mixed Grasses	Low		Non-Wood
Reed Canary Grass	Trace		Non-Wood

123 4112 - Maple, Beech, Cherry Association Sawtimber Well 23.6 105 81-110 N/A Unique hardwood stand with very heavy hemlock component. Hemlock working its way to overstory, has done this in few spots. Upland overall but lowland character. Likely seeps throughout stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	8	Log/Pole	13		Beech	Low	5 - 10 feet	Sapling
Black Cherry	20	Log/Pole	14		Hemlock	Full	Variable	Pole
Yellow Birch	2	Log/Pole	10					
Red Maple	55	Log/XLog	17	105				
Beech	15	XLog/Log	18					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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199 42101 - Planted White Pine, Mixed Deciduous Sawtimber Well 22.9 63 141-170 N/A

Stand was planted in 1960 to white pine. Some portions failed with aspen dominate. Where white pine did take it did well. Rows not well defined at this point.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	64	Log/Pole	13	63	Red Maple	Medium	Variable	Sapling
Red Maple	3	Log/Pole	12		White Pine	Low	Variable	Sapling
Bigtooth Aspen	30	Log/Pole	12		Black Cherry	Medium	Variable	Sapling