



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42103

Entry Year 2018

Acreage: 3,382

County Luce

Management Area: Tahquamenon Basin Wetlands

Revision Date: 2016-08-22

Stand Examiner: Matt Payment

Legal Description:

T46N R11W Sections 19 - 21, 28 - 30, & 31 - 33

Identified Planning Goals:

Maintain or improve the forest health and productivity through limited timber management while simultaneously protecting the unique natural communities found within the compartment. Treatments prescribed will increase age class and structural diversity, ensure the sustainability of the forest resource and enhance the quality of the wildlife habitat within the area. Sensitive areas around the Tahquamenon River and a few tributaries found within the compartment will be protected.

Soil and topography:

Lowland muck soils (Carbondale, Lupton and Tawas) dominate the compartment. Forested cover types on these lowland soils are mainly cedar, tamarack, swamp conifer, black spruce and treed bogs. Subtle ridges and higher ground, mainly in the southern reaches of the compartment, are comprised of fine sand loams producing forested cover types of aspen (upland and lowland), and low quality northern hardwoods. The topography of the compartment is primarily level, low ground with some higher ground in the southern portions of the compartment.

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

The compartment is entirely State owned. The compartment is bordered by private property to the north and to the south, while additional State owned land borders the compartment to the east and west. Land use and development are substantial to the south of the compartment with many private parcels containing permanent residences of the greater metropolitan area of McMillan and the associated suburbs. Due to the lowland nature and "inaccessibility" of the compartment, land use within the compartment boundaries will remain minimal.

Unique Natural Features:

NFI lists an occurrence of Frigga Fritillary and Osprey within the compartment. There is the potential for various wildlife such as spruce grouse, blacked-back woodpecker, wood turtle, eagle, goshawk, moose, wolf, and ebony boghaunter. There's also the potential for unique plants such as yellow pitcher plant, English sundew, black crowberry, calypso orchid, lapland buttercup, ram's head lady's slipper, and a host of others.

Archeological, Historical, and Cultural Features:

None listed.

Special Management Designations or Considerations:

The Tahquamenon River flows through the center of the compartment. No prescribed management activities will impact the communities and features associated with the river system. The western portion of Sections 19 and 30 between Syphon Creek and Laketon Slough (stands 58, 59, 61) are part of the "Tahquamenon Spreads", a unique hydrologic occurrence within the Tahquamenon River system.

Watershed and Fisheries Considerations:

Fisheries Values: Good to Excellent

Fisheries Concerns: The Tahquamenon River and Syphon, Red, East, Mud, and Laketon Slough creeks are all designated trout streams in this compartment. All are assigned the high priority stream buffer of 300 feet. Brook Trout are present in all of these streams. However, the Tahquamenon River is relatively warm in this reach so likely more suitable for coolwater species such as Northern Pike. A lot of site conditions are identified here so treatments in many stands will be limited regardless of the buffer restrictions.

Wildlife Habitat Considerations:

Compartment 103 lies in western Luce county in the Seney Sand Lake Plain ecological sub-subsection and the Tahquamenon River Basin Wetlands Management Area and black bear, gray jay, snowshoe hare and white-tailed deer and listed featured species. The compartment is also entirely within the McMillan deer yard which supports high numbers

of deer during stressful winter periods. The compartment is dominated by cedar, spruce, and swamp conifer and stands have relatively low species diversity. The Tahquamenon river runs through the compartment and serves as excellent wetland habitat and a well used travel corridor. Pre-settlement vegetation patterns appear to be consistent with current vegetation in this region of the subsection.

Cedar will be left throughout the compartment. Conifers will be left in swamp aspen stands and species and structural diversity will be maximized in final harvest spruce and fir stands. Nest and den trees, snags, and woody debris will be maintained in stands where they exist. Travel corridors along streams and drainages will be preserved during harvest. Wildlife species potentially using this compartment include white-tailed deer, moose, black bear, bobcat, gray wolf, coyote, fox, fisher, mink, beaver and otter.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat & muck and minor coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Ordovician Stonington Formation subcrops below the glacial drift. The Stonington could be used for stone, but bedrock is not near the surface here. A former sand pit is located in Section 33, in McMillan. The majority of the compartment is covered by wetlands, but there may be some sand/gravel (mostly sand) potential along the southern edge of the compartment. There is no economic oil and gas production in the UP and there is no known metallic mineral potential in this area.

Vehicle Access:

The compartment is located ¼ mile north of Highway M-28 along County Road 415. Due to the lowland aspect of the compartment, access is limited. County Road 415 provides the only passenger vehicle access through the compartment. Canadian National Railroad runs through the southern portion of the compartment. All other access to the compartment would be via boat on the Tahquamenon River.

Survey Needs:

Survey needs are dependent on access issues. If access is gained and timber management occurs, the following additional line work and associated corner establishment will be needed: N1/16 line through Sections 31 & 32. These survey needs will be prioritized once it is certain whether or not access can be acquired.

Recreational Facilities and Opportunities:

County Road 415 is used as part of the designated snowmobile trail system (Trail #492). The Tahquamenon River provides plenty of fishing opportunities within the compartment and surrounding area. Waterfowl and deer hunting are also main recreational uses of the compartment.

Fire Protection:

Fires should be small and slow growing because of hardwood and swamp conifer types. Lowland soil types and accessibility may limit the use of heavy equipment for suppression. Areas of this compartment may lend itself to modified suppression strategies, such as containment and monitoring.

Additional Compartment Information:

The following reports from the Inventory are attached:

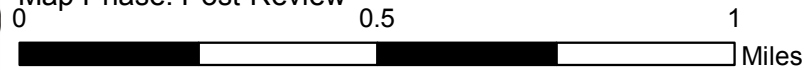
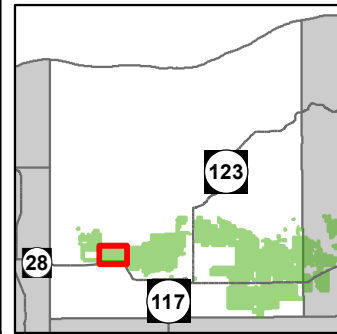
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

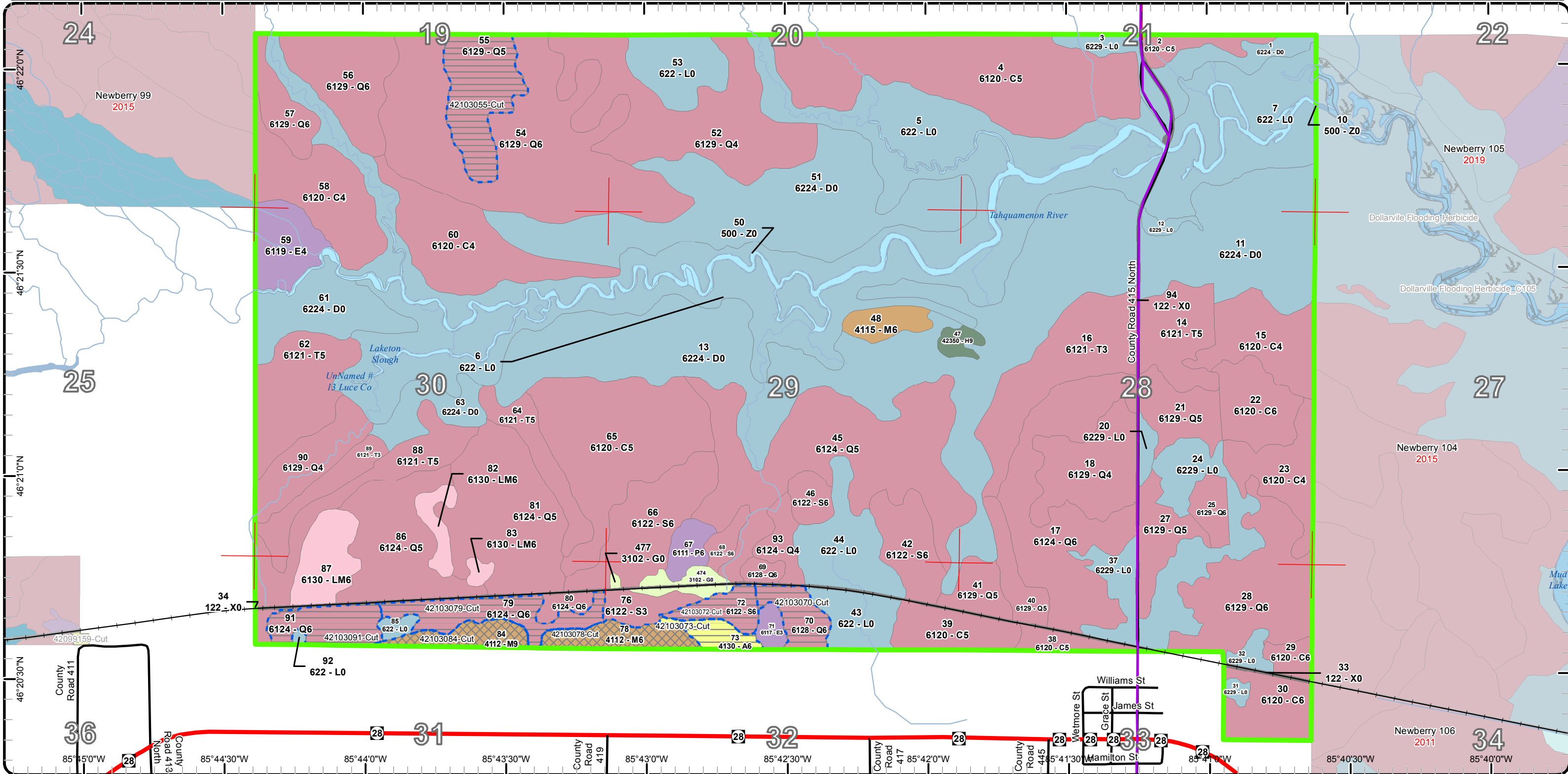
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 103
 T46N R11W Sec. 19-21, 28-33
 County: Luce
 Unit: Newberry
 Mgmt Area: Tahquamenon Basin
 Wetlands
 YOE: 2018
 Acres: 3,382 GIS Calculated
 Examiner: Matt Payment
 Map Revised: 11/16/2016
 Map Phase: Post-Review

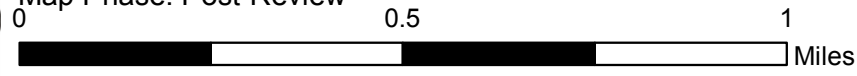
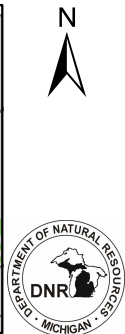
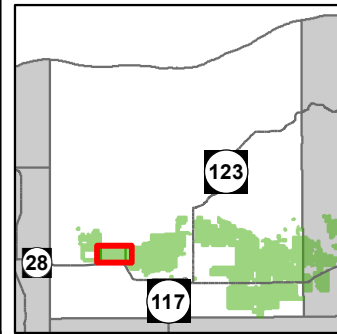


- Miris Corners
- Designated Snowmobile Trails
- Highway
- Paved Roads
- County Gravel Roads
- + Active Railroad
- Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- Lakes

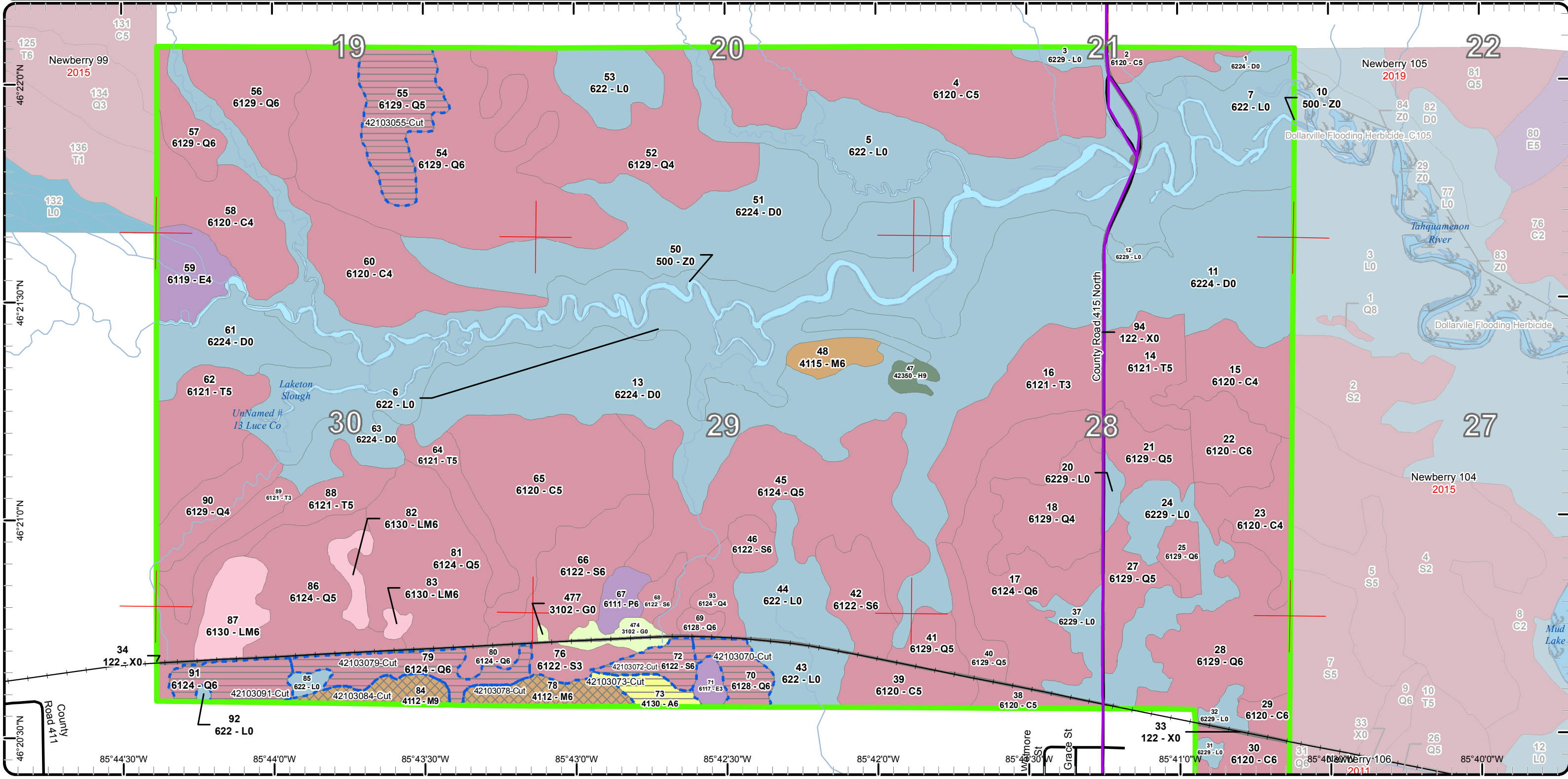


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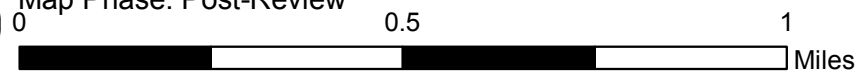


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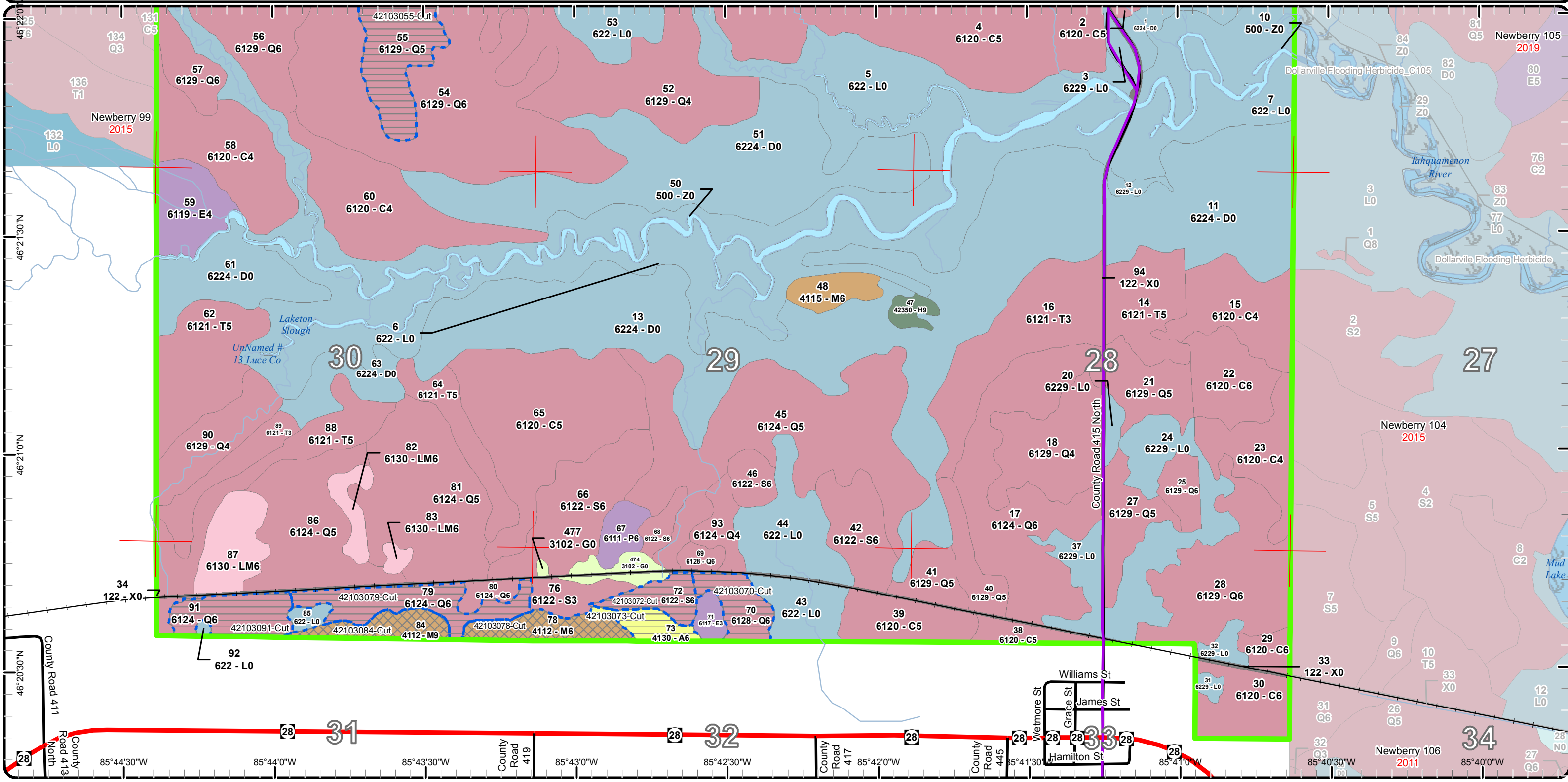


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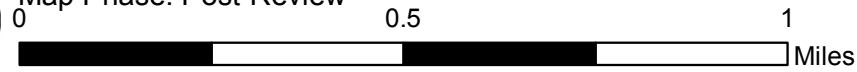
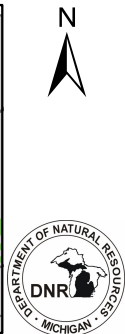
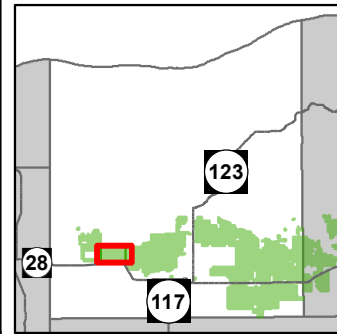


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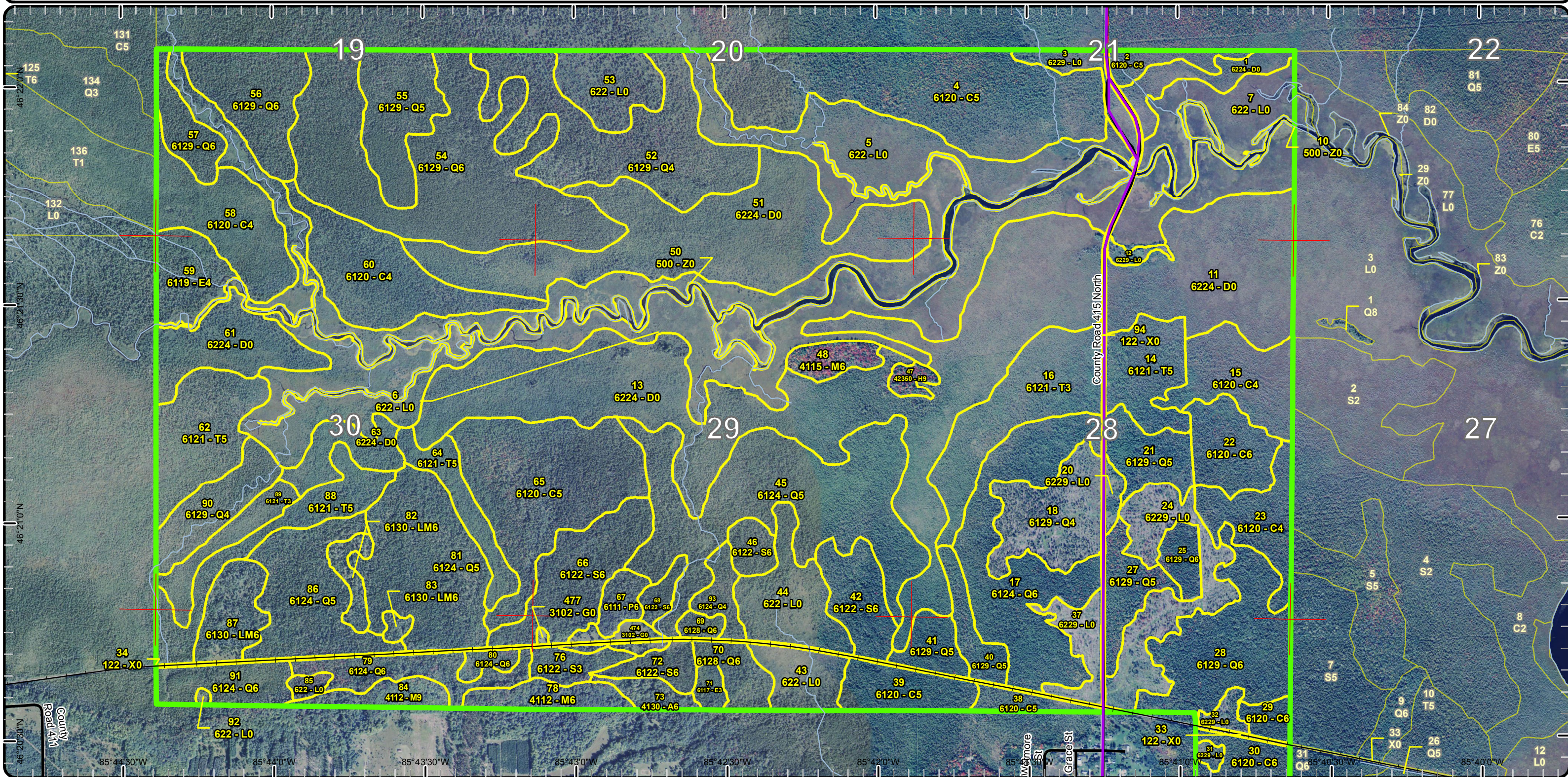


Stand Boundary Map

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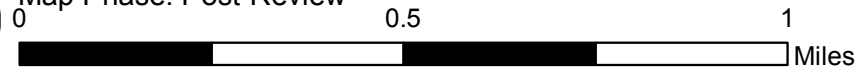
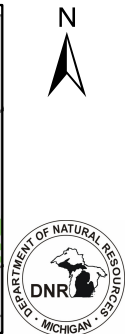
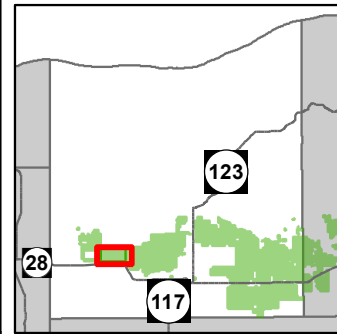


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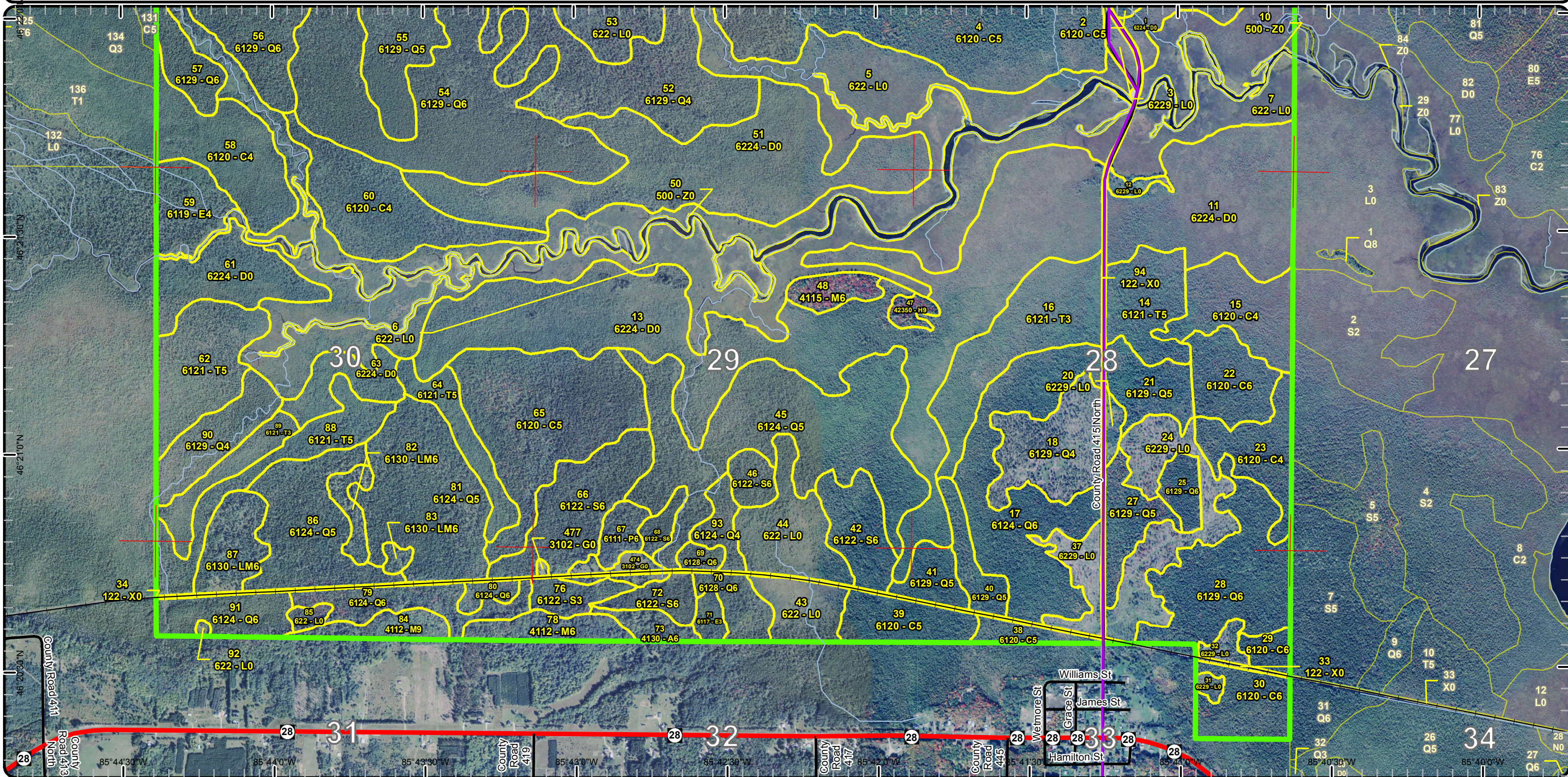


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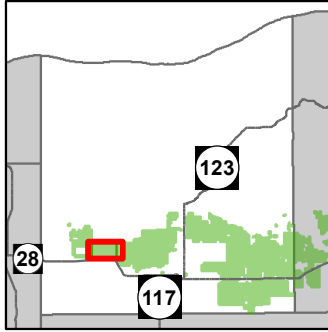
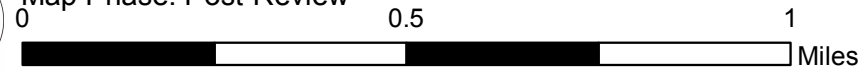


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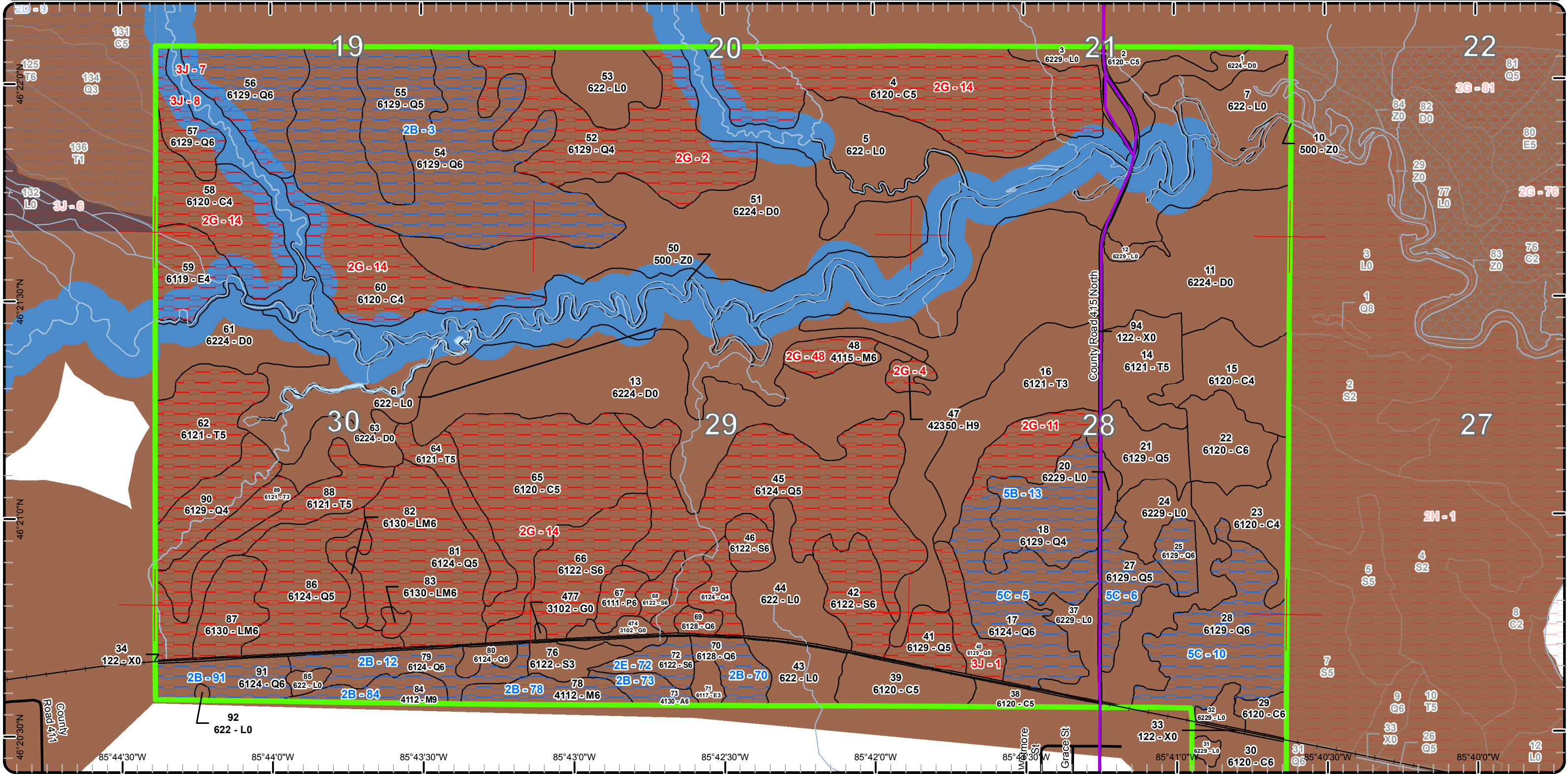


Special Conservation Areas & Site Conditions Map

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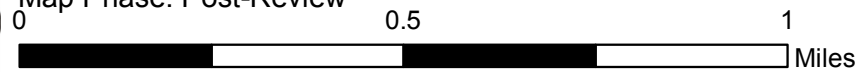
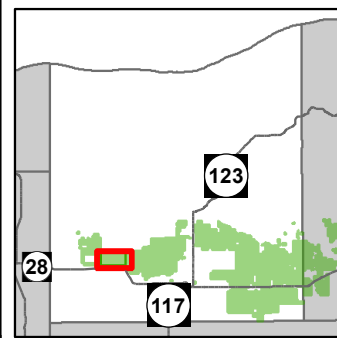


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2B: Unknown if access through adjacent landowner(s) is possible
- 2E: Road needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range
- Riparian Area

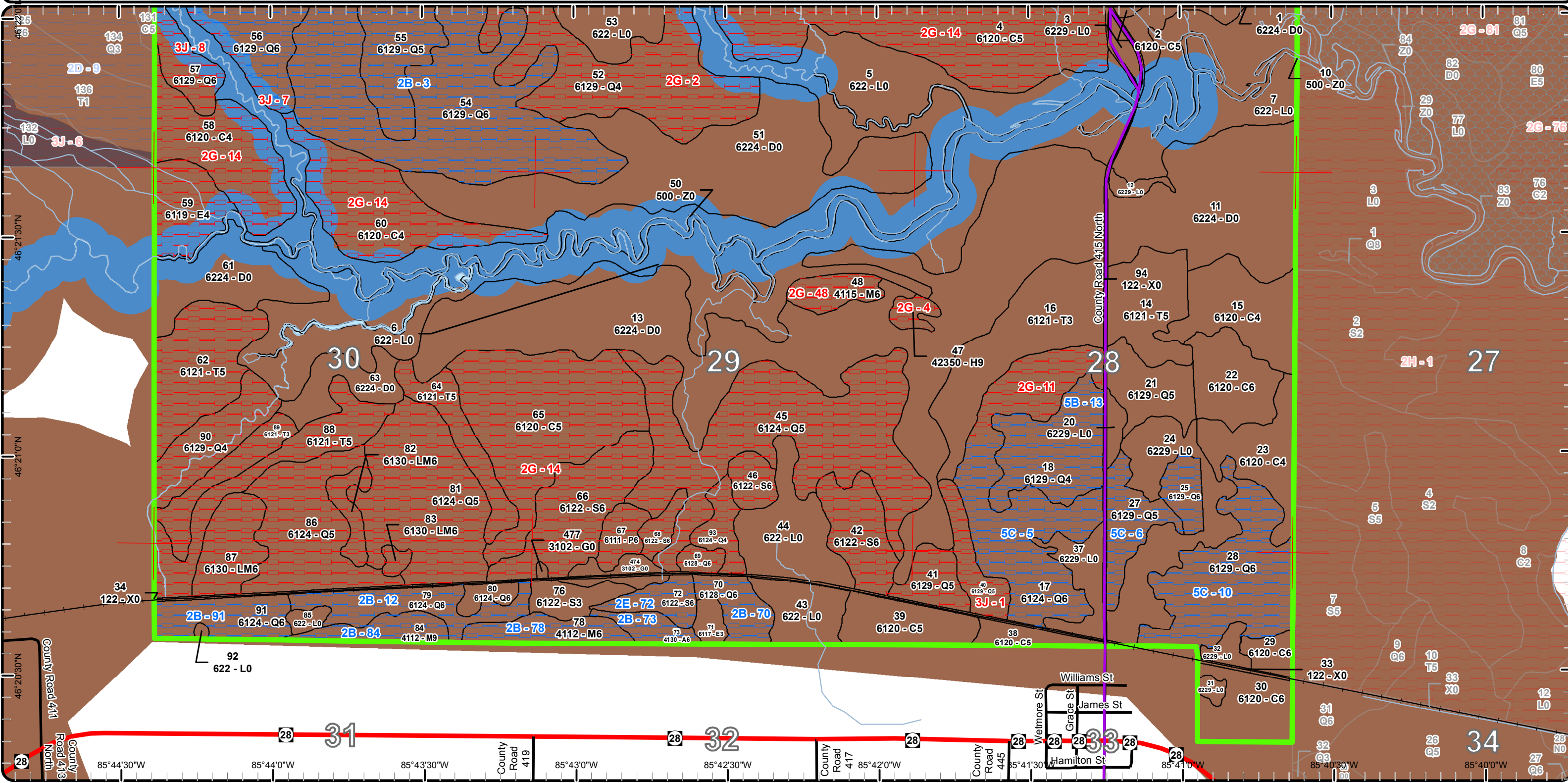


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Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Cedar	0	0	0	0	0	0	0	0	0	25	254	242	0	0	0	0	0	0	520
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
Herbaceous Openland	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	10
Lowland Conifers	0	0	0	0	0	0	6	0	224	413	68	0	0	0	0	0	0	321	1031
Lowland Deciduous	0	0	0	0	0	6	0	0	0	0	26	0	0	0	0	0	0	0	32
Lowland Mixed Forest	0	0	0	0	0	0	0	24	0	13	0	0	0	0	0	0	0	0	37
Lowland Shrub	648	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	648
Lowland Spruce/Fir	0	0	0	0	0	0	12	0	0	0	12	64	0	0	0	0	0	27	115
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	44	44
Tamarack	0	0	0	0	0	80	0	34	0	108	0	0	0	0	0	0	0	0	222
Treed Bog	616	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	616
Urban	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Water	59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	59
Total	1358	0	0	0	0	86	18	58	234	568	360	306	0	0	0	0	0	398	3383



Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 103

Total Compartment Acres: 3,382

Commercial Harvest - 34
 Harvests with Site Condition - 159
 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	9	0	0	0	0	0	0	0	0	9
Lowland Conifers	105	0	0	0	0	0	0	0	0	105
Lowland Spruce/Fir	12	0	0	0	0	0	0	0	0	12
Northern Hardwood	0	32	0	0	0	0	0	0	0	32
Tamarack	34	0	0	0	0	0	0	0	0	34
Total	161	32	0	0	0	0	0	0	0	193

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	193	0	0	0	0	0	0	0	0	193
Next Step	0	0	0	0	0	0	193	0	0	193
Total	193	0	0	0	0	0	193	0	0	385



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	Approval Status
14	42103014-Cut	33.9	6121 - Tamarack	Poletimber Medium	67	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Remove all tamarack, spruce and cedar. Leave some small pockets of cedar throughout the stand.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Lowland mixed conifer species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

55	42103055-Cut	41.4	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	84	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Unknown Access**

Prescription Remove all species except for cedar. Leave all hemlock where it exists. Winter cut only.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixed lowland conifers

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

70	42103070-Cut	15.2	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	83	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Unknown Access**

Prescription Cut all species present. Leave all cedar and hemlock. Railroad blocks access from the north and the east has water issues blocking access.

Specs: Winter cut only.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable mixed lowland species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

72	42103072-Cut	12.3	6122 - Black Spruce	Poletimber Well	91	111- 140	Harvest	Clearcut	6122 - Black Spruce	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition: Road Needed**

Prescription Cut everything except cedar and hemlock. Winter cut only.

Specs: Cut when surrounding stands are harvested. Access limited to the private from the south.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable black spruce or mixed lowland conifers.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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	Approval Status
73	42103073-Cut	9.4	4130 - Aspen	Poletimber Well	83	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition: Unknown Access**

Prescription Cut everything except cedar and hemlock if it exists. Winter cut only.

Specs: Access is difficult, will have to be from the south through private. Survey work needed as well. Small acreage stand with areas that have seeps and drainages. Acreage will become smaller when sale is set up.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen and or mixed deciduous species are acceptable regeneration.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

78	42103078-Cut	17.8	4112 - Maple, Beech, Cherry Association	Poletimber Well	104	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition: Unknown Access**

Prescription Areas with lower quality overstory and good advanced regeneration can be thinned to 60-70 basal area. Mark for a residual basal area of 80 on average in the areas with better overstory quality.

Specs: Leave any cedar and hemlock if present. Winter cut only.

Access is from the south through the private land. Access could be limited. Survey work is needed also.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixed northern hardwoods.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

79	42103079-Cut	27.4	6124 - Lowland Spruce-Fir	Poletimber Well	79	51-80	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition: Unknown Access**

Prescription Remove all species present leaving all Hemlock, cedar, and white pine if present.

Specs: Winter cut only.

Access will be difficult with a good slope and private to the south and the railroad to the north. Some wet areas around the edges along with drainage in the hillside. Harvest with surrounding stands if possible.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixed lowland conifers.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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	Approval Status
84	42103084-Cut	14.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	107	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:** Unknown Access

Prescription Selection cut with a residual basal area of 70 sq ft.

Specs: Leave all cedar and hemlock. Winter cut only.
Access difficult will have to be from the south through private. Cut when surrounding stands are harvested. Survey work needed.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern Hardwoods

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

91	42103091-Cut	20.9	6124 - Lowland Spruce-Fir	Poletimber Well	93	111- 140	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:** Unknown Access

Prescription Remove all species present. Leave any white pine, hemlock, and cedar. Winter cut only.

Specs: Access will be difficult. Some small drainages within stand. Steeper slope to the south.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mixed lowland coniferous.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 192.5**

Report 4 – Site Conditions

Newberry Mgt. Unit
Matt Payment : Examiner

Compartment: 103
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions	Dominant Site Conditions						
		With Condition				2B	2E	5B	5C	2G	3J	
9	0	9	0		Aspen	9						
519	179	0	340		Cedar					340		
6	0	0	6		Hemlock					6		
10	10	0	0		Herbaceous Openland							
10	0	0	10		Lowland Aspen/Balsam Poplar					10		
1030	29	509	492		Lowland Conifers	301		44	164	464	27	
31	6	0	26		Lowland Deciduous					26		
37	0	0	37		Lowland Mixed Forest					37		
648	648	0	0		Lowland Shrub							
116	12	12	92		Lowland Spruce/Fir		12			92		
44	0	32	12		Northern Hardwood	32				12		
222	95	0	127		Tamarack					127		
616	616	0	0		Treed Bog							
25	25	0	0		Urban							
59	59	0	0		Water							
3,382	1,678	563	1,141		Total Forested Acres	343	12	44	164	1,113	27	
	50%	17%	34%		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	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small stream runs through the middle of the stand.							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	98	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
 Matt Payment : Examiner

Compartment: 103
 Year of Entry: 2018

3	Available	2B: Unknown if access through adjacent landowner(s) is possible	235	2E: Road needed	2I: Survey needed	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	63	5B: Maintain for regeneration purposes	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified
Comments: Evaluated for SBW.							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
 Matt Payment : Examiner

Compartment: 103
 Year of Entry: 2018

10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	68	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Allow regeneration in surrounding harvested stands more time to grow before cutting. Also to allow for a more diverse age class system within the surrounding stands.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	2B: Unknown if access through adjacent landowner(s) is possible	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5B: Maintain for regeneration purposes	44	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	971	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
 Matt Payment : Examiner

Compartment: 103
 Year of Entry: 2018

48	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
70	Available	2B: Unknown if access through adjacent landowner(s) is possible	15	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
72	Available	2E: Road needed	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
73	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
78	Available	2B: Unknown if access through adjacent landowner(s) is possible	18	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							
84	Available	2B: Unknown if access through adjacent landowner(s) is possible	14	2I: Survey needed	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Matt Payment : Examiner

Compartment: 103
Year of Entry: 2018

91	Available	2B: Unknown if access through adjacent landowner(s) is possible	24	Unspecified	2I: Survey needed	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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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	General Comments:
2	6120 - Lowland Cedar	Poletimber Medium	11.1	99	1-50	Very wet poor quality cedar stand. Borderline becoming a treed bog. Cedar is all very small and stunted. There are a lot of dead tops throughout the stand. There is a small creek running through the stand on the west side.
4	6120 - Lowland Cedar	Poletimber Medium	133.0	99	1-50	Stand is comprised mainly of shorter poor quality cedar. Stand is significantly more west on the east side but has wet areas throughout the whole stand. There are some thicker spots with black spruce and cedar in pockets. Thickest part right in the middle of the stand. There is a small creek the runs through the stand. Also an old ice road comes into the north side of the stand and head to the west. Past inventory indicated that the stand was cut in early 1900's based on old photos and notes.
14	6121 - Tamarack	Poletimber Medium	33.9	67	51-80	The same as previous inventory small diameter tamarack with a component of cedar and black spruce. More of a solid tamarack stand near the county road. Wet stand. Lots of dead or nearly dead tamarack (larch casebearer - 1998-1999). Basal area varies throughout the stand. Older tamarack was hit by the outbreak, leaving the younger tamarack. A few smaller pockets of younger Tamarack had some signs of Larch beetle damage but it was not severe.
15	6120 - Lowland Cedar	Poletimber Poor	39.7	99	1-50	Stand has low quality cedar, some tamarack and small amount of black spruce mixed throughout. Dead tops present throughout the stand. Tag alder and cedar dominate the understory with tamarack around the edges of the stand.
16	6121 - Tamarack	Sapling Well	60.8	47	81-110	Poor quality stunted tamarack stand that has a bog bottom. Thicker areas to the west side of stand. Tag alder understory. Signs of old ice road through the northern part the stand running east and west.
17	6124 - Lowland Spruce-Fir	Poletimber Well	89.7	84	51-80	Small diameters, thicker understory of advanced regeneration (balsam, spruce, and some cedar). Majority of the stand is a Q5 overstory of spruce and tamarack with a thick understory. Pockets of Q6 throughout the stand. Retaining this stand will help reduce the visual impact of the adjacent harvests. This stand should be checked in 10-20 years once the advanced understory has put on some additional growth. To harvest now would create excessive damage to the understory.
18	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	44.1	91	Unspecified	Stand has mainly larger cedar and some small pockets of spruce and balsam fir left throughout from the harvest. The new regeneration coming in is spruce, balsam, some lowland aspen and balsam fir coming in. The larger cedar and spruce are over top of the new regeneration coming in. The Western boundary of the stand follows the more open canopy and the higher cedar component (stand 17). Management objective is Q - mixed swamp conifer. Any combination of a lowland conifer species mix is acceptable alternative management objective.

Stand harvested as sale #021-08-01, "McMillan Mix".
Completed 06/06/2014.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	23.6	84	51-80	Stand is a mix of cedar, tamarack, and black spruce with a tag alder, cedar, spruce, understory. Many tamarack are dead throughout the stand. Some thicker patches of tamarack closer to the road. There are some open areas in the stand as well. Southern edge is more open sparsely scattered trees.
6120 - Lowland Cedar	Poletimber Well	29.5	94	51-80	Thick stand of cedar with some open areas that have tamarack and spruce mixed in with the cedar. Cedar and black spruce in the understory. Stand was cut through in the early 1900's (1920's?) along with the majority of the area.
6120 - Lowland Cedar	Poletimber Poor	30.6	94	1-50	Stand is mainly larger cedar with a component of younger black spruce and tamarack to make it a two aged stand. There are some trace amounts of red maple in the stand on the east side going into C104. Slight elevation change in the middle of the stand. Stand was cut in the past, around the 1920's. Some good cedar regeneration. Open stand in many areas. Wet.
6129 - Mixed Coniferous Lowland Forest	Poletimber Well	11.1	86	81-110	<p>Small diameter mixed conifer stand with a good cedar component. The stand was cut in the early 1900's (1920's?) Lots of dead tamarack (larch casebearer - 1999). Areas with younger spruce and tamarack and pockets of more mature spruce. Many parts of the stand have a "scattered" or semi open overstory with a thick understory. Thick pockets of cedar. Areas with good cedar regeneration. Stand was delineated from adjacent stands that have been prescribed for harvest. Due to the cedar component and the thicker, advanced understory. Treating this stand at this time would damage a large portion of the advanced regeneration. Holding the stand will provide for diversity and aid in visual concerns with adjacent harvests.</p> <p>Would hold stand for age class diversity and allow the advanced regeneration to grow more in the stand and in the cutting around the stand before harvesting. Look at in 10-20 years.</p>
6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	21.5	84	1-50	Spruce, cedar and tamarack with some smaller diameter balsam. Thick understory of the same species. Some areas in the stand that are smaller diameter and more open. Two aged stand with thick healthy understory. Scattered large diameter spruce. More cedar further east in the stand. Stand will aid in buffering the visual impact of the adjacent harvests from the county road. Check in 10-20 years for harvest once the understory is more mature in the stand and the stands that were harvested around it. Hold for age class diversity.
6129 - Mixed Coniferous Lowland Forest	Poletimber Well	68.4	86	81-110	<p>Small diameter mixed conifer stand with a good cedar component. The stand was cut in the early 1900's (1920's?) Lots of dead tamarack (larch casebearer - 1999). Areas with younger spruce and tamarack and pockets of more mature spruce. Many parts of the stand have a "scattered" or semi open overstory with a thick understory. Thick pockets of cedar. Areas with good cedar regeneration. Treating this stand at this time would damage a large portion of the advanced regeneration. Holding the stand will provide for diversity and aid in visual concerns with adjacent harvests.</p> <p>Look at stand in 10-20 years to harvest. Hold for age class diversity. Harvest stand if spruce budworm becomes a factor.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	6120 - Lowland Cedar	Poletimber Well	7.8	109	141-170	Cedar stand with balsam and spruce component. Pockets of large diameter cedar. Some open areas with good cedar regeneration. A few dead trees throughout the stand. Ground is considerably wet.
30	6120 - Lowland Cedar	Poletimber Well	26.7	109	141-170	Stand mainly consists of cedar with a spruce and balsam component scattered throughout. Pockets of larger cedar present in the stand along with some good cedar regeneration. Old logging / ice road runs through a portion of the stand. Some trace amounts of aspen and red maple in the southwest corner of the stand. Access to the stand is blocked by railroad tracks and private property.
38	6120 - Lowland Cedar	Poletimber Medium	9.1	97	1-50	Low quality cedar stand with some tamarack and spruce mixed throughout. Stand is very wet. Small creek running north through the stand. Access will be difficult from the south through private but could be accessed on the east end of the stand.
39	6120 - Lowland Cedar	Poletimber Medium	24.8	87	51-80	Stand has high variability. Open areas with short open grown trees, pockets of spruce, and other areas of swamp conifer typically found in this area. Fairly wet ground. Quality varies throughout the stand. Access is questionable through lowground on private land to the south. Many pockets of younger regeneration within the stand. Carbondale, Lupton and Tawas mucks.
40	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	15.7	75	1-50	Stand is mainly Tamarack and black spruce with some cedar mixed in throughout and concentrated more on the southern end of the stand. Most of the larger Tamarack has died throughout the stand but the smaller diameter poles are still looking healthy. There is a small stream that flows through the stand to going north to the Tahquamenon River.
41	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	14.3	84	1-50	Stand is mainly black spruce and tamarack with some cedar mixed throughout. Heavy understory of same species as the overstory. Access would be tough with railroad tracks to the south. Access would be from the east through stand 40.
42	6122 - Black Spruce	Poletimber Well	27.3	97	81-110	Fairly nice black spruce stand. Thick in most of the southern portion of the stand. Lots of spruce less than 4 inches in diameter. Some open areas further north in the stand. Mature spruce. Prescribed for a final harvest with a management objective of black spruce. Acceptable alternative management objective of mixed swamp conifer. Access to the stand is from east along the north side of the railroad. At least one culvert will be needed for a creek crossing. Areas of advanced balsam and spruce regeneration in the stand should be protected if stand is harvested. More remote location. Visual impact is not a concern. Road into the stand for harvesting will be blocked and obliterated after sale is complete.
45	6124 - Lowland Spruce- Fir	Poletimber Medium	132.9	85	1-50	Semi open stand. Pockets of cedar and other pockets of spruce and balsam. Understory is a mix of balsam, spruce, tag alder and cedar. Quality decreases the further north in the stand. Northeast portion of the stand is primarily tamarack with some mortality. Understory is thick in spots. Possibly treat east half of stand with stand 42 if it is prescribed. Streams and drainages throughout the stand may make treating portions difficult.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	6122 - Black Spruce	Poletimber Well	10.1	109	111-140	Small acreage but has some nice black spruce in the stand. The tamarack in the stand is all but dead and blown over. Thick balsam fir understory in blow down areas. Harvest if the prescribed stands to the south are managed this entry year. Access is very questionable.
47	42350 - Upland Hemlock	Sawtimber Well	5.7	134	51-80	Small knob of mixed conifer, primarily hemlock, in the middle of the treed bog. Stand consists of hemlock, white pine and tall spruce over smaller red maple, cedar and balsam. Thick understory throughout. Cedar regeneration along the edges of the stand. Real mix of species. Only real access to the stand is by snowmobile or via the river.
48	4115 - Y.Birch, Hemlock NH	Poletimber Well	12.3	112	111-140	Mainly red maple stand with a thick edge of hemlock, white pine, and small balsam. Large diameter hemlock and white pine (16-20+ inches). Center of the stand is mainly M6/M9. Extreme west end is spruce, white pine, hemlock, and trace amounts of cedar. Isolated island of timber with absolutely no access. Unique large diameter characteristic to the stand, bordering along the Tahquamenon River.
52	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	98.0	84	1-50	Poor, low quality spruce and cedar with a few tamarack. Southern reaches of the stand turn into more of a treed bog. Stand is very open in spots. Cedar has some dead tops. Access would be very difficult to reach this stand as well as it is considerably wet.
54	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	155.2	77	81-110	Lowland conifer stand of black spruce, cedar and some tamarack. Primarily spruce. Only access to this area would possibly through private land to the north from Co Rd 442 (2-3 miles in across all swamp). Air photo shows old road coming in from the north into adjacent stand 55.
55	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	41.4	84	51-80	Poor, low quality spruce and cedar with a few tamarack. Southern reaches of the stand turn into more of a treed bog. Stand is very open in spots. Cedar has some dead tops. Stand has an old road coming in from the north through private property. Only access would be from the north through private property.
56	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	44.4	85	51-80	Stand of mostly lowland conifers. Low/wet area with very difficult access. Syphon Creek borders the stand to the west. Tamarack was hit by larch casebearer and is mostly all dead. Access issues would make this stand almost impossible to ever harvest.
57	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	18.2	85	51-80	Stand of mostly lowland conifers. Low/wet area with very difficult access. Syphon Creek borders the stand to the east. Tahquamenon River Spreads are to the south. Tamarack was hit by larch casebearer. Easiest access to the stand would be all the way from the west through the adjacent compartment.
58	6120 - Lowland Cedar	Poletimber Poor	51.1	107	1-50	Low wet area with extremely difficult access. Short, suppressed trees. Parts of the stand are more of a treed bog. Stand buffers the area known as the Tahquamenon River Spreads. Unique area. Easiest access to the stand would be all the way from the west if the stand was ever prescribed.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
59	6119 - Mixed Lowland Deciduous Forest	Poletimber Poor	25.6	97	1-50	VERY wet stand. Stand has the Tahquamenon River Spreads flowing through the stand. Access is extremely difficult. This stand will never be harvested due to the unique features in and surrounding it.
60	6120 - Lowland Cedar	Poletimber Poor	60.0	100	1-50	Very wet. Treed bog in spots. Small diameter short cedar. Fairly open throughout. Is nearly impossible to access.
62	6121 - Tamarack	Poletimber Medium	47.3	89	51-80	Low quality tamarack stand bordering on the Upper Tahquamenon River. Very wet. Tamarack in the area was hit hard by larch casebearer. Tamarack and spruce in the understory.
64	6121 - Tamarack	Poletimber Medium	22.2	89	1-50	Stand is almost purely tamarack with black spruce. All of the tamarack has some sign of being hit by larch beetle or is already dead. Spruce appears fairly healthy. Access would be tough.
65	6120 - Lowland Cedar	Poletimber Medium	95.7	109	51-80	Stand is mainly cedar with more spruce around the edges of the stand. Areas have thick understory with balsam and spruce. Stand transition into treed bog to the north. Some pockets of large cedar in the middle of the stand. Some open areas that are more wet than other areas in the stand. Access is difficult into the stand, having to come from the east. If stand is harvest cut with stand 66.
66	6122 - Black Spruce	Poletimber Well	47.6	108	81-110	Mature black spruce stand with tamarack and balsam and some cedar scattered throughout. Much of the larger diameter tamarack is dead. Good, thick F3 understory. Nice tall spruce throughout the stand. Some areas in the stand are more open with lower overstory basal area. Majority of the stand is very nice, tall black spruce. Access is very questionable due to the location. Multiple culverts and over 1 1/2 miles or winter road for access from the east. Private land to the south along with railroad crossing needed (permits, insurance) really limits the possibility for access. Management objective of black spruce. Acceptable alternative management objective of mixed lowland conifer.
67	6111 - Lowland Balsam Poplar	Poletimber Well	10.1	78	81-110	Mature balsam poplar stand with spruce, tamarack and some quaking aspen. Much of the larger diameter tamarack is dead. Both the balsam poplar and the aspen are in bad shape, dying out. Poor quality stand in need of regeneration. Open areas have smaller diameters. Edges of the stand bordering stands 66 and 68 have more black spruce. Access is very questionable due to the location. Multiple culverts and over 1 1/2 miles or winter road for access from the east. Private land to the south along with railroad crossing needed (permits, insurance) really limits the possibility for access. Management objective of balsam poplar. Acceptable alternative management objective of balsam poplar with a mixed swamp conifer component.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
68	6122 - Black Spruce	Poletimber Well	6.7	109	111-140	Nice tall black spruce stand. Very uniform diameters. Almost "park like" in areas. Good component of large diameter cedar. Tamarack in the stand is almost all dead. Stand is prescribed but with limiting factors due to very questionable access. Management objective is black spruce. Acceptable alternative management objective of mixed swamp conifers. Multiple (at least 3) culverts/creek crossings needed and multiple miles of road to freeze in. Access from the south would require permission from private land and crossing permits (requiring very high liability insurance) from the railroad. If stands are able to be harvested, treat stands 66, 67, 68, 82, 83, 87 as one sale to make sure the value of the sale offsets any additional costs associated with accessing the sale.
69	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.8	83	51-80	Lowland stand of white birch, spruce, balsam and cedar. Some black ash and balsam poplar. Mortality in some white birch and balsam. Low quality stand. Understory of balsam and black ash. management objective of mixed swamp conifer. Acceptable alternative management objective of lowland aspen/birch with a mix of swamp conifer. Access is very questionable due to the location (multiple culverts needed and over a mile of winter road construction. If access is gained through the private, set up as one sale with stands 66, 67, 68, 82, 83, and 87 (all limiting factored stands north of the railroad).
70	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	15.2	83	81-110	Lowland stand of white birch, black ash, balsam and cedar. Some of the white birch is in bad shape, dying out. Small diameter black ash. Areas of "Q", "P", and "E". Balsam is healthy. Cedar is patchy. Stand is mature. Scattered large diameter spruce. Understory of balsam and black ash. Access is from the south through the private land. Access could be limited. Survey work is also needed. Winter cut. If access is gained through the private, set up as one sale with stands 73, 78, and 84 (all accessed through the private). South side of stand is more wet than the rest with a small drainage possibly running to the northeast.
71	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	5.8	47	Unspecified	Stand was harvested back in the late 1960's to early 1970's. No cutting records. Cut shows on the 1978 photos but not on the 1964's. Regeneration is a real mix of species (white birch, yellow birch, balsam poplar, black ash, balsam, spruce). Scattered merchantable yellow birch, white birch, and balsam - left from the cut. Good yellow birch regeneration.
72	6122 - Black Spruce	Poletimber Well	12.3	91	111-140	Thick, small diameter black spruce with some cedar tamarack and balsam. Good balsam understory in areas with open canopy. Very uniform, small diameters. Small pocket of cedar in the middle. Stand is mature but small diameters. Some dead tamarack and cedar throughout the stand. Was held for 10 years for diversity due to the amount of spruce being prescribed in the immediate area along with the adjacent cuts. Stand is ready to be harvested, access will be difficult.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
73	4130 - Aspen	Poletimber Well	9.4	83	81-110	Stand is mainly large, mature and overmature aspen with some balsam poplar, hard maple and soft maple. Stand is located on a slope with a few drainages, fingers with "seepages" on the hillside. Slope appears to be manageable for harvesting. Care will have to be taken due to the number of drainages. Portions of the stand may need to be excluded from the harvest around these drainages. Harvest as much of the stand as possible without damage to the site. Large diameter aspen throughout. Stand is prescribed for final harvest. Access is through the private to the south and survey work is needed. If access is gained through the private, set up as a sale with stands 70, 78, and 84 (all will be accessed through private to the south). Management objective is aspen.
76	6122 - Black Spruce	Sapling Well	12.0	55	81-110	Stand is a mix of black spruce, balsam fir, cedar and some tag alder. Some scattered trace black ash throughout the stand. Previous inventory indicated that stand was harvested in the 1960's. There is a good amount of conifer regeneration coming up in the stand. Stand was holding some water in places. Access in the future would have to be from the south into the stand.
78	4112 - Maple, Beech, Cherry Association	Poletimber Well	17.8	104	111-140	Stand was partially harvested by stump diameter cut in 1974 (west half). Portions of the stand that were cut harder have good advanced regeneration with less quality in the overstory. Other parts of the stand have very little understory but very nice quality in the overstory. Decline in the red maple throughout the stand. Beech bark disease. Occasional yellow birch and black cherry. Stand is ready for harvest and prescribed for a selection cut. Areas with lower quality overstory and good advanced regeneration can be thinned to 60-70 basal area. Mark for a residual basal area of 80 on average in the areas with better overstory quality. Management objective of northern hardwoods. Access is from the south through the private land. Access could be limited. Survey work is needed also. Stand has a moderate slope to it but it is manageable (harvested in the past). Old road from previous cut should be used as a main skid trail but not as a haul road. If access is gained through the private, set up as one sale with stands 70, 73, and 84 (all accessed through private. Possible winter or dry summer month cutting restrictions due to the drainages and "seepages" within the stand along the hillside. Prescribe stand with site conditions for future possibilities of harvest.
79	6124 - Lowland Spruce-Fir	Poletimber Well	27.4	79	51-80	Stand lies south of the railroad tracks. Very "patchy" with open areas of lower merchantable basal area but thicker understory. Wet, standing water in spots. Hemlock mixed in along the edge of the hardwoods stand (stand 84). Small diameters. Pockets of dead tamarack.
80	6124 - Lowland Spruce-Fir	Poletimber Well	5.7	55	Unspecified	Stand is a mix of black spruce, white birch, balsam, black ash, cedar and some tag alder. Occasional merchantable trees (1-2 sticks) - likely left after the 1962 harvest. Very thick stand. Good regeneration. Stand was cut in the early 1960's - shows as a very recent harvest on the 1964 photos.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
81	6124 - Lowland Spruce- Fir	Poletimber Medium	78.8	87	51-80	Mixed conifer stand with a good cedar component. Pockets of large diameter cedar. Areas of thicker, more advanced regeneration/understory with less of an overstory. Lots of variability to the stand. Tamarack in the stand is mostly dead. Many parts of the stand are very thick. Parts of the stand are more of a spruce type especially the western portion of the stand. Possible to harvest the stand in 10 years if access is gained for limiting factored stands prescribed this entry year north of the railroad.
82	6130 - Fir, Aspen, Maple	Poletimber Well	9.6	86	81-110	Large diameter aspen, all pulp quality, limby and overmature over balsam, spruce and a few tamarack. Access to the stand is very questionable due to the location. Multiple culverts needed and approx. 2 miles of winter road for access from the east. Private land and railroad to the south negates access from that direction, further limiting the access possibilities. Management objective of lowland aspen. Acceptable alternative management objective of lowland aspen mixed with swamp conifer.
83	6130 - Fir, Aspen, Maple	Poletimber Well	3.0	86	81-110	Large diameter aspen, all pulp quality, limby and overmature over balsam, spruce and a few tamarack. Access to the stand is very questionable due to the location. Multiple culverts needed and approx. 2 miles of winter road for access from the east. Private land and railroad to the south negates access from that direction, further limiting the access possibilities. Management objective of lowland aspen. Acceptable alternative management objective of lowland aspen mixed with swamp conifer.
84	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.2	107	111-140	Stand is fairly nice hardwoods. Mix of red maple, sugar maple, with some yellow birch, beech and basswood. Clumps of aspen along the north edge of the stand. Thinned in 1975 - old notes state by stump diameter cut. Overall quality of the overstory is good. Some nice pockets of sugar maple sawlogs. Some decline in the red maple throughout the stand. Beech bark disease. Stand is ready for harvest and prescribed for a selection cut with a residual basal area of 70 sq ft. Management objective of northern hardwoods. Present basal area of the stand is 110-120 sq ft. Manage the stand now with the adjacent stands because of access. Access is from the south through the private land. Access could be limited. Stand has a moderate slope to it but it is manageable (harvested in the past). West end of the stand may be difficult to manage due to the slope. If access is gained through the private, set up as one sale with stands 70, 73, and 84 (all accessed through private. Possible winter or dry summer month cutting restrictions due to the drainages and "seepages" within the stand along the hillside.
86	6124 - Lowland Spruce- Fir	Poletimber Medium	55.2	87	51-80	Swamp conifer stand with lots of variability in size, heights, and density of the understory throughout the stand. Mainly black spruce balsam and cedar. Much of the tamarack in the overstory is dead (over 70%). More regeneration and thicker in those areas with less overstory. Pockets of cedar.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
87	6130 - Fir, Aspen, Maple	Poletimber Well	24.4	69	51-80	Lowland aspen stand. Edges of the stand have more tamarack where it transitions to the adjacent stands. Numerous dead spruce and tamarack throughout the stand, mainly west and south. Aspen is in good shape. Access is very questionable due to the stand location. Multiple culverts and over 2 miles of winter road construction needed for access to the east. Private land and railroad negates access from the south. Prescribed for final harvest with limiting factors. If access is gained, set up as one sale with stands 66, 67, 68, 82, and 83 (all limiting factor stands north of the railroad). Management objective of lowland aspen. Acceptable alternative management objective of lowland aspen and mixed swamp conifer.
88	6121 - Tamarack	Poletimber Medium	38.3	89	1-50	Stand is in bad shape. Majority of the tamarack is dead or dying. Many areas have more dead tamarack than live tamarack. Spruce component is fairly healthy. Small creek through the southern portion of the stand. Stand has some light regeneration coming in throughout but overall the stand is mainly dead and blown over trees.
89	6121 - Tamarack	Sapling Well	19.3	47	Unspecified	Small diameter tamarack with some spruce and cedar. Bog type ground. Some dead top and blown over trees along the stand to the south.
90	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	29.0	76	1-50	Smaller diameter stand of spruce, cedar, and tamarack. Some top die back in the tamarack. Small creek runs through the stand to the northeast.
91	6124 - Lowland Spruce- Fir	Poletimber Well	23.8	93	111-140	Stand is a mix of black spruce and cedar. Eastern 2/3 of the stand is mainly spruce while the western 1/3 is mostly cedar near the creek. Spruce is mature and healthy. Thick understory in spots. Private land limiting access is also a factor. Some small drainages running through the stand. Southern portion of the stand has a steeper slope.
93	6124 - Lowland Spruce- Fir	Poletimber Poor	11.6	70	1-50	Stand is very open in the middle and more along the eastern and southern edges. Small diameter white birch, black spruce and balsam poplar. Very wet, low quality. Access is difficult into the stand.



Stand	Cover Type	Acres	Managed Site	General Comments:
1	6224 - Treed Bog	19.0	No	Treed bog with tamarack and small cedar. Tag alder throughout the stand wet throughout the stand as well.
3	6229 - Mixed lowland shrub	12.9	No	A lot of standing water in the summer months. Some flooded timber. Most of the timber is dying or has dead tops.
5	622 - Lowland Shrub	192.5	No	Lowland brush bordering the Tahquamenon River throughout the compartment. Brush and tag alder.
6	622 - Lowland Shrub	185.6	No	Lowland brush bordering the Tahquamenon River throughout the compartment. Brush and tag alder.
7	622 - Lowland Shrub	80.5	No	Lowland brush bordering the Tahquamenon River throughout the compartment. Leather leaf brush and tag alder
10	500 - Water	9.2	No	Upper Tahquamenon River
11	6224 - Treed Bog	94.2	No	Treed bog with tamarack and small cedar. Tag alder throughout the stand wet throughout the stand as well. An old ice road runs north and south through the west half of the stand.
12	6229 - Mixed lowland shrub	3.8		<p>Stand was a clear cut with some retention. There are scattered large aspen, spruce and some tamarack throughout the stand. Monitor for regeneration.</p> <p>Stand harvested as sale #021-08-01, "McMillan Mix". Completed 06/06/2014. Regeneration check needed per work instructions.</p> <p>There appears to be an old dumpsite within the stand. Possible site of old McMillan dump? Numerous old cars and appliances showing through the snow. Also mounds where it looks like other items are buried. Easy access off County Road 415. Winter cut due to the soil type. Management objective of lowland aspen, acceptable alternative management objective of a lowland aspen and lowland conifer mix.</p>
13	6224 - Treed Bog	289.4	No	Treed bog with tamarack and small cedar. Some areas are thicker with trees but overall the stand in all treed bog. Couple of small islands of timber on the west end that are very small. Tag alder throughout the stand and wet throughout the stand as well.
20	6229 - Mixed lowland shrub	4.6	No	Low, open area with some brush along east side of County Road 415. Carbondale,
24	6229 - Mixed lowland shrub	49.8	No	<p>Stand now mainly consists of a few scattered aspen, black spruce and some cedar that were left throughout the stand. There is a mix bag of regeneration coming into the sale of tamarack, spruce, balsam fir, some aspen and tag alder. Management objective is mixed swamp conifer. Acceptable alternative management objective of a mix of lowland aspen and mixed swamp conifer.</p> <p>Stand harvested as sale #021-08-01, "McMillan Mix". Completed 06/06/2014.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
31	6229 - Mixed lowland shrub	2.8	No	Wet, open stand of stunted cedar and tamarack.
32	6229 - Mixed lowland shrub	5.5	No	Stand is mainly regeneration with a small overstory component of cedar which was left as part of the harvest. Spruce, balsam, some tamarack, and tag alder are the species coming in. Management objective is lowland aspen. Acceptable alternative management objective is a mix of lowland aspen and lowland conifers. Stand harvested as sale #021-08-01, "McMillan Mix". Completed 06/06/2014.
33	122 - Road/Parking Lot	1.7	No	Canadian National Railroad Right of Way.
34	122 - Road/Parking Lot	11.8	No	Canadian National Railroad Right of Way.
37	6229 - Mixed lowland shrub	16.1		Stand is mainly regeneration coming in with some large sapling/pole conifers 4 inches or less in diameter after the harvest to help reduce the visual impact of the sale due to the adjacency to the county road and the proximity to McMillan. This provided some structural diversity in the stand. Management objective of black spruce. Acceptable alternative management objective of mixed swamp conifer. Stand harvested as sale #021-08-01, "McMillan Mix". Completed 06/06/2014.
43	622 - Lowland Shrub	21.0	No	Some small poor quality timber on the south side of the stand. Stand is impeded by railroad tracks to the north and private property to the south.
44	622 - Lowland Shrub	38.2	No	Similar to stand 43. Small drainage running through the stand. Some thicker pockets of timber on the west side of the stand. Impeded by railroad tracks to the south.
50	500 - Water	49.8	No	Upper Tahquamenon River
51	6224 - Treed Bog	152.7	No	Treed bog with tamarack and small cedar. Tag alder throughout the stand and wet throughout the stand as well. Stand borders the Tahquamenon River. Some thicker areas of timber but the stand is mostly open treed bog.
53	622 - Lowland Shrub	29.7	No	Stand is mainly small stunted spruce and cedar. Wet throughout the stand.
61	6224 - Treed Bog	40.1	No	Treed bog with tamarack and small cedar. Tag alder throughout. Bog ground. Stand condition 8 = possible SCA = buffer for Tahquamenon River Spreads (Upper Tahquamenon River "sheet flow").
63	6224 - Treed Bog	20.8	No	Treed bog with tamarack and small cedar. Tag alder throughout the stand and also wet throughout the stand as well.
85	622 - Lowland Shrub	3.8	No	Stand is a small wet area with some timber throughout. Tough access with railroad track to north and private to the south. Appears to have a drainage through it looking at imagery.



Stand	Cover Type	Acres	Managed Site	General Comments:
92	622 - Lowland Shrub	0.9	No	Small opening with some lowland brush and some timber scattered around the perimeter.
94	122 - Road/Parking Lot	11.0	No	County Road 415 Right of Way.
474	3102 - Grass	8.8	No	Wet ground field/grass type. Stand has characteristics of both a "G" and an "L". Carbondale, Lupton and Tawas muck soils
477	3102 - Grass	0.7	No	OPIC - FMD: Wet ground field/grass type. Stand has characteristics of both a "G" and an "L". Carbondale, Lupton and Tawas muck soils