



Compartment Review Presentation

Pigeon River Country Forest Management Unit

Compartment 11

Entry Year 2016

Acreage: 3,564

County Cheboygan

Management Area: Pigeon River Country

Revision Date: 08/29/2014

Stand Examiner: Richard McDonald

Legal Description:

T34N R01W Sec. 34-36

T33N R01W Sec. 1-3, 11-14, 23, 24

Identified Planning Goals:

Maintain current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

Soil and topography:

Uplands are generally rolling to mostly level interspersed with lowland swamps and creek bottoms. Soils are predominantly variations of Cheboygan Sand in the uplands with Tawas Peat in the lowlands.

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

Solid state ownership.

Unique Natural Features:

This compartment was expanded to create the Dog Lake Special Management Area. This is a wetland complex surrounding Dog Lake that was identified as a sensitive area that needed special protection.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Dog Lake Special Management Area.

Watershed and Fisheries Considerations:

Dog Lake and its watershed eventually flows through McMasters Creek into the Black River which is a designated trout stream. Dog Lake, along with Dog Lake Flooding, offers very limited fishing opportunities.

Wildlife Habitat Considerations:

A wildlife Division representative will be available to participate in the formal compartment review.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 100 and 400 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for cement products elsewhere in the state. There are not nearby gravel pits, but there should be good potential in Section 14 although, in keeping with the Concept of Management, extraction of surface minerals will rarely be allowed. This area was previously leased for oil and gas development. The Antrim shale subcrops in this area may be too thin for production. The Niagaran trend is located to the southeast. There is limited oil and gas potential for known producing formations in this compartment. This compartment falls entirely within the Consent Order Area so no new leases shall be issued in this area.

Vehicle Access:

There is good access to most, if not all, of the compartment. Most of the roads, however, have been closed to wheeled motorized vehicles with virtually all those closures still intact.

Survey Needs:

None required.

Recreational Facilities and Opportunities:

The High Country Pathway passes through section 35 and 36 in the northeast portion of the compartment. The primary recreational pursuit in this area is hunting.

Fire Protection:

Access is good in case of any fire suppression efforts, though the area is generally at low risk to any wildfire potential.

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**

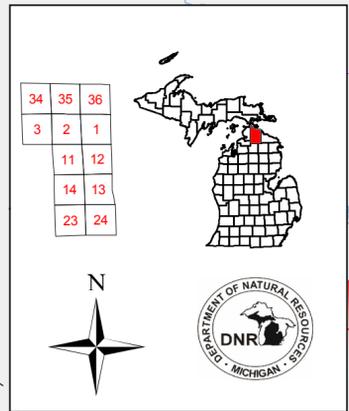
The following information is displayed, where pertinent, on the attached compartment maps:

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

Compartment: 011
 T33N R01W Sec. 01,02,03,11,12,13,14,23,24
 T34N R01W Sec. 34-36
 County: Cheboygan
 Unit: Pigeon River Country
 YOY: 2016
 Acres: 3,564 GIS Calculated
 Examiner: Richard McDonald
 Map Revised: 06/25/2014
 Map Phase: Pre-Review

Cover Type & Treatment Map

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- Remonumented Section Corners
- Miris Corners
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Hiking Trails
- Horse Trails
- Ski Trails
- Ski Trail
- Hiking Trail
- Horse Trail
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Mowing

Forest Stands

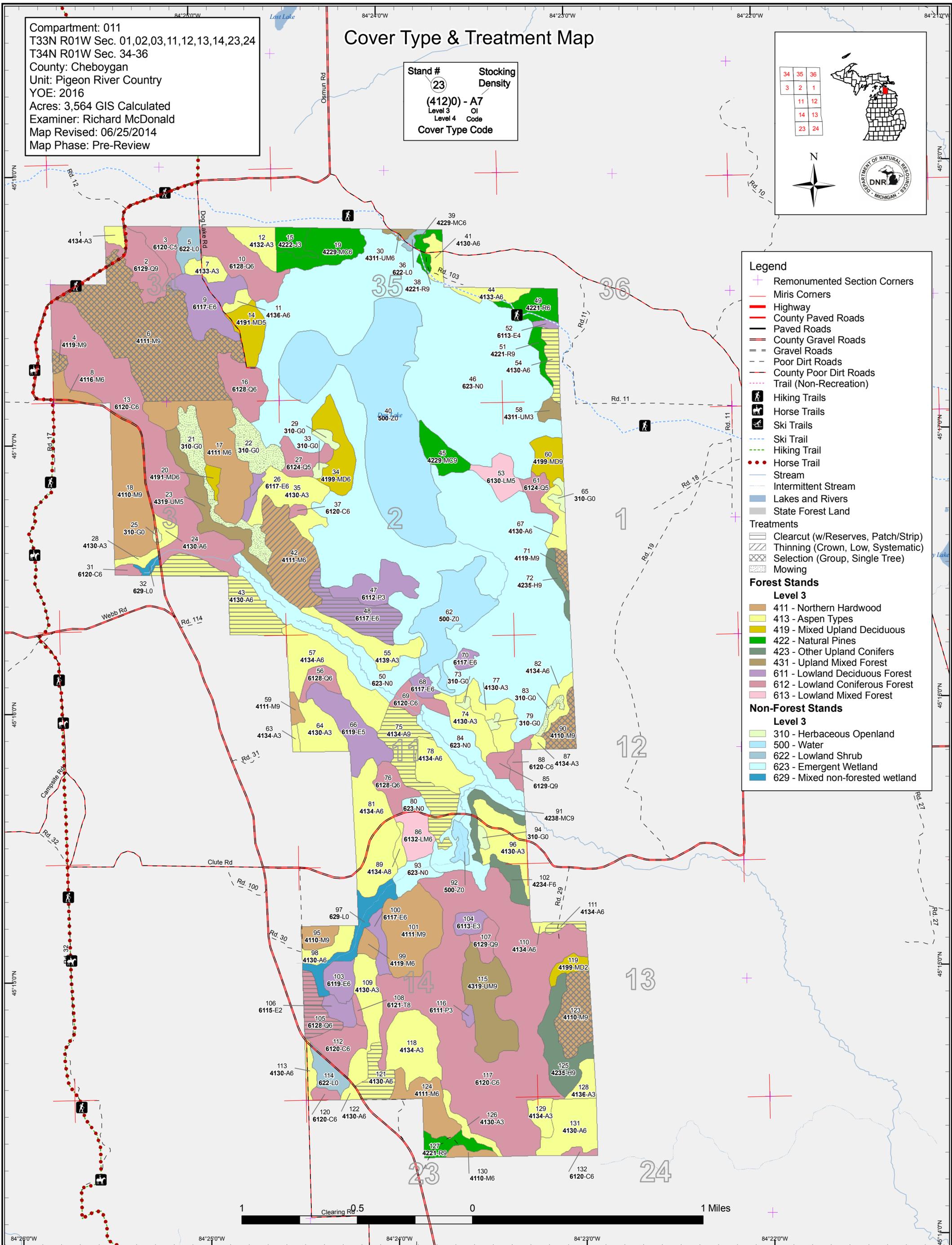
Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland

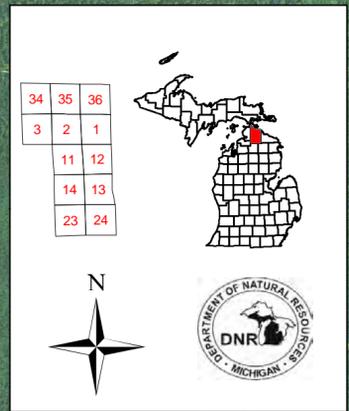


84°26'0"W 84°25'0"W 84°24'0"W 84°23'0"W 84°22'0"W

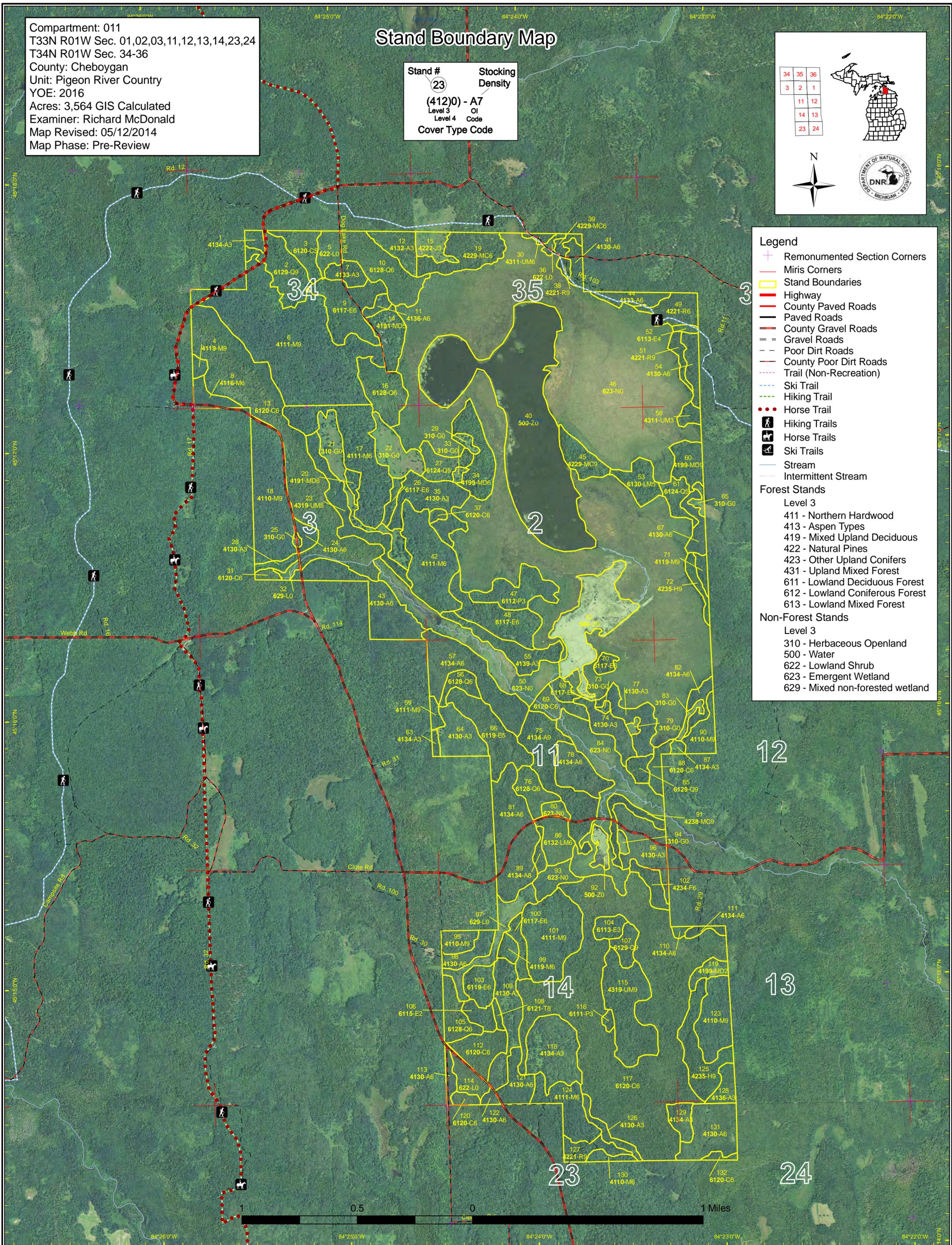
Compartment: 011
 T33N R01W Sec. 01,02,03,11,12,13,14,23,24
 T34N R01W Sec. 34-36
 County: Cheboygan
 Unit: Pigeon River Country
 YOE: 2016
 Acres: 3,564 GIS Calculated
 Examiner: Richard McDonald
 Map Revised: 05/12/2014
 Map Phase: Pre-Review

Stand Boundary Map

Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



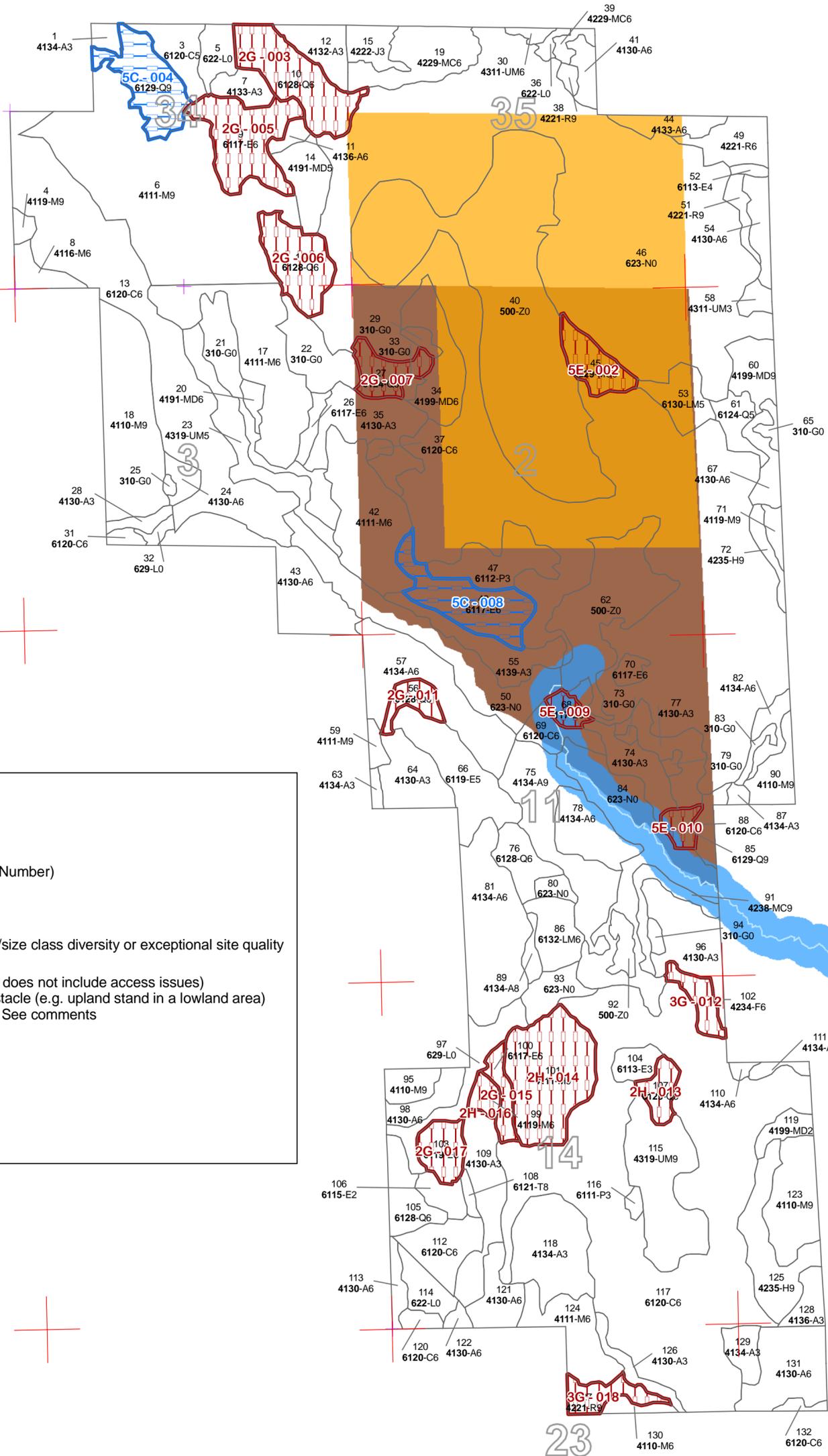
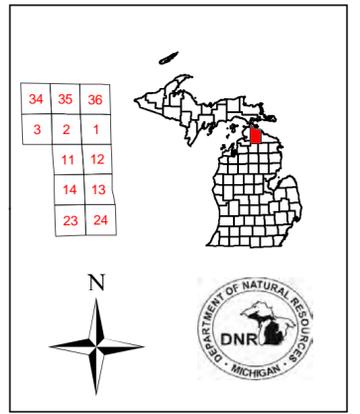
- Legend**
- + Remonumented Section Corners
 - Miris Corners
 - Stand Boundaries
 - Highway
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - Gravel Roads
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 - Ski Trail
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 - Intermittent Stream
- Forest Stands**
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- 411 - Northern Hardwood
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- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
 - 500 - Water
 - 622 - Lowland Shrub
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 - 629 - Mixed non-forested wetland



Special Conservation Areas & Site Conditions Map

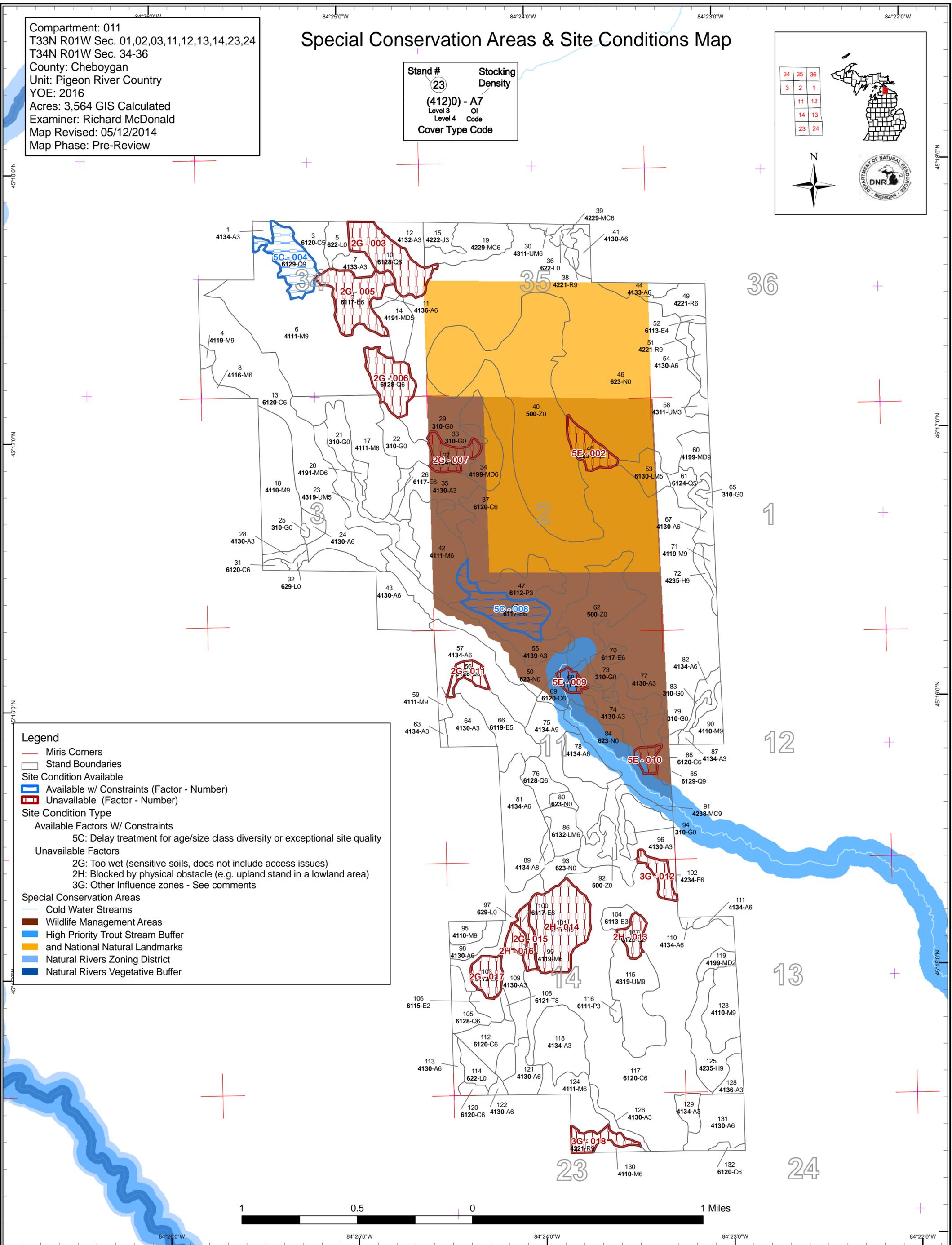
Compartment: 011
 T33N R01W Sec. 01,02,03,11,12,13,14,23,24
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 Examiner: Richard McDonald
 Map Revised: 05/12/2014
 Map Phase: Pre-Review

Stand # 23
 Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Legend

- Miris Corners
- Stand Boundaries
- Site Condition Available
 - Available w/ Constraints (Factor - Number)
 - Unavailable (Factor - Number)
- Site Condition Type
 - Available Factors W/ Constraints
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
 - Unavailable Factors
 - 2G: Too wet (sensitive soils, does not include access issues)
 - 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
 - 3G: Other Influence zones - See comments
- Special Conservation Areas
 - Cold Water Streams
 - Wildlife Management Areas
 - High Priority Trout Stream Buffer and National Natural Landmarks
 - Natural Rivers Zoning District
 - Natural Rivers Vegetative Buffer



Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	0	24	228	86	176	40	0	44	4	0	0	0	0	0	602
Cedar	0	0	0	0	0	0	0	0	0	485	2	15	0	0	502
Hemlock	0	0	0	0	0	0	0	0	0	36	0	0	0	0	36
Herbaceous Openland	66	0	0	0	0	0	0	0	0	0	0	0	0	0	66
Jack Pine	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Lowland Aspen/Balsam Poplar	0	0	24	2	0	0	0	0	0	0	0	0	0	0	26
Lowland Conifers	0	0	0	0	0	10	14	25	73	44	0	0	0	0	165
Lowland Deciduous	0	0	0	8	13	2	0	33	62	35	0	0	0	0	153
Lowland Mixed Forest	0	0	0	0	0	15	0	0	16	0	0	0	0	0	31
Lowland Shrub	47	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Marsh	945	0	0	0	0	0	0	0	0	0	0	0	0	0	945
Mixed Upland Deciduous	0	0	7	4	18	0	26	0	0	14	0	0	0	0	69
Natural Mixed Pines	0	0	0	0	32	0	0	0	0	0	0	0	15	0	48
Northern Hardwood	0	0	0	0	9	0	0	0	0	456	0	0	0	0	465
Red Pine	0	0	0	0	0	0	0	16	11	0	0	3	0	6	36
Tamarack	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
Upland Conifers	0	0	0	0	0	0	0	10	0	0	0	0	0	0	10
Upland Mixed Forest	0	0	27	5	0	0	0	0	46	0	0	0	0	3	80
Upland Spruce/Fir	0	0	0	0	0	0	9	0	0	0	0	0	0	0	9
Water	261	0	0	0	0	0	0	0	0	0	0	0	0	0	261
Total	1329	24	286	105	248	42	60	118	148	1115	46	18	18	8	3564



Report 2 – Proposed Treatment Summaries

Don River Country Mgt. Unit
Year of Entry 2016

Compartment 011
Total Compartment Acres: 3,564

Acres by Treatment Type

Commercial Harvest - 403 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 51

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Aspen Types	114	0	0	0	0	0	114
Lowland Coniferous Forest	16	0	0	0	0	0	16
Lowland Deciduous Forest	31	0	0	0	0	0	31
Northern Hardwood	0	195	0	0	47	0	242
Total	161	195	0	0	47	0	403



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4 53011004-Cut	3.3	4119 - Mixed Northern Hardwoods	High Density Log	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<p><u>Prescription</u> Selectively mark trees to cut by identifying crop trees and removing two nearest competitors. Thin to 70 - 90 BA. There is BBD and EAB in the area. All ash shall be removed and beech should be significantly reduced within the stand. Not particularly concerned with regeneration this entry, but there should be opportunities to try and get some established because of all the ash that will be coming out resulting in some rather large generation holes.</p> <p><u>Specs:</u></p> <p><u>Other</u> This is a small portion of a larger stand in compartment 3 that is set to be marked in 2014 and will be included.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u></p> <p><u>Proposed Start Date:</u> 10/01/2013</p>									

6 53011006-Cut	146.7	4111 - S.Maple, Hard Mast Association	High Density Log	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
<p><u>Prescription</u> Selectively mark to cut but still with a good eye towards managing existing crop trees where possible, this should be a little heavier cut with trying to create larger gaps for regeneration with gaps ranging from 60 -100 ' in some areas. This is the third maybe fourth entry into this stand with the last entry seeing lots of raspberry and elderberry in the regeneration holes. There is a significant hemlock component that should be maintained. There also is BBD and EAB in the area. All ash shall be removed from the stand and a significant portion of the beech, but maintaining some for mast production.</p> <p><u>Specs:</u></p> <p><u>Other</u></p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Follow regeneration survey guidelines/timelines in monitoring regeneration success.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>									

42 53011042-Cut	47.2	4111 - S.Maple, Hard Mast Association	High Density Pole	95	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Cmpt. Review Proposal
<p><u>Prescription</u> There is no record of any work done in this stand in over 30 years, so it is pretty much a first thinning. Selectively mark to cut by identifying crop trees and releasing the crowns. Maintain a good species mix, however, there is BBD and EAB in the area so all ash shall be removed and beech should be significantly reduced. Mark down to about 70-80 BA. There are some wet areas that should be avoided so as not to cause any significant soil damage. Create some regen holes 60-100 ft. in diameter.</p> <p><u>Specs:</u></p> <p><u>Other</u></p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> This stand will probably not be ready again to enter for 20 years at which point we can start thinking about regeneration.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>									

43 53011043-Cut	40.1	4130 - Aspen	High Density Pole	50	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Part of a larger aspen stand that extends into compartment 10 that has already been prescribed for cutting beginning in 2015. They will be managed together as one. Clearcut with no retention, but maintain a little buffer along the creek bottom.</p> <p><u>Specs:</u></p> <p><u>Other</u> No retention is meant to maximize regen to provide woodcock habitat.</p> <p><u>Comments:</u></p> <p><u>Next Steps:</u> Follow regeneration survey guidelines/timelines in monitoring for regeneration success.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p>									



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
48	53011048-Cut	31.1	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	80	81-110	Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal

Prescription Clearcut with 2-3 retention islands. Mark some larger diameter trees to fell and leave on site for grouse drumming logs.

Specs:

Other

Comments:

Next Steps: Follow regeneration guidelines/timelines to monitor for regeneration success.

Proposed

Start Date: 10/01/2015

54	53011054-Cut	10.7	4130 - Aspen	High Density Pole	39	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription Clearcut with reserves while maintaining Oak component. This stand is part of a larger stand in compartment 6 and will be managed with that stand at that time.

Specs:

Other

Comments:

Next Steps: Follow regeneration survey guidelines/timelines in monitoring regeneration success.

Proposed

Start Date: 10/01/2019

71	53011071-Cut	4.3	4119 - Mixed Northern Hardwoods	High Density Log	95	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
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Prescription This stand is already marked and under contract with a larger stand in compartment 12 sold in 2012. This stand was on the fringe of the larger hardwood stand bordering lowlands and has a good conifer component, but basswood and red maple predominate.

Specs:

Other

Comments:

Next Steps: Follow regeneration survey guidelines/timelines in monitoring regeneration success.

Proposed

Start Date: 10/01/2011

75	53011075-Cut	44.4	4134 - Aspen, Spruce/Fir	High Density Log	70	81-110	Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
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Prescription Clearcut w/ reserves with 2-3 retention islands. Mark and fall scattered larger diameter trees for grouse drumming logs. Create several brush piles throughout the sale either during or upon completion of logging operations for Hare habitat using VMS spec 5.2.4.1.

Specs:

Other

Comments:

Next Steps: Follow regeneration survey guidelines/timelines in monitoring for regeneration success.

Proposed

Start Date: 10/01/2015

90	53011090-Cut	12.8	4110 - Sugar Maple Association	High Density Log	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
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Prescription Selectively mark to cut. This stand is part of much larger stand in compartment 12 that was marked in 2012 and is under contract already.

Specs:

Other

Comments:

Next Steps: Follow regeneration survey guidelines/timelines in monitoring for regeneration success.

Proposed

Start Date: 10/01/2011



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
105	53011105-Cut	16.1	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	85	81-110	Harvest	Clearcut with Reserves	6120 - Lowland Cedar	Cmpt. Review Proposal

Prescription Clearcut with reserves. There is a good Hemlock component that should be left. Leave some clumps Cedar along the west edge to help it from windthrow and provide a seed source for the regenerating stand. Create some brush piles throughout the stand during or upon completion of logging operations for Hare habitat using VMS spec 5.2.4.1.

Other
Comments:

Next
Steps: Follow regeneration survey guidelines/timelines in monitoring for regeneration success.

Proposed
Start Date: 10/01/2015

111	53011111-Cut	3.4	4134 - Aspen, Spruce/Fir	High Density Pole	48	51-80	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal
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Prescription Part of a larger aspen stand in compartment 12 that was sold in 2012 and is under contract.

Other
Comments:

Next
Steps: Follow regeneration survey guidelines/timelines in monitoring regeneration success.

Proposed
Start Date: 10/01/2011

121	53011121-Cut	15.0	4130 - Aspen	High Density Pole	48	51-80	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription Clearcut with no retention because of the small size of the stand. Mark some larger diameter trees to fall and leave for grouse drumming logs.

Other
Comments:

Next
Steps: The stand is a little low and can be wet certain times of the year
Follow regeneration survey guidelines/timelines in monitoring for regeneration success.

Proposed
Start Date: 10/01/2015

123	53011123-Cut	28.1	4110 - Sugar Maple Association	High Density Log	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Cmpt. Review Proposal
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Prescription Selectively mark to cut. Part of a much larger stand in compartment 12 that was marked and sold in 2012.

Other
Comments:

Next
Steps: Follow regeneration survey guidelines/timelines in monitoring for regeneration success.

Proposed
Start Date: 10/01/2011



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
21 NF_53011021-NonFor	27.3	3102 - Grass				Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Possibly mow and fertilize.

Specs:

Other Comments: Good, high quality opening has been burned in the past and would be beneficial to do it again to clear off all the dead grass, which was really heavy.

Next Steps:

Proposed Start Date: Unspecified

22 NF_53011022-NonFor	20.8	3102 - Grass				Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal
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Prescription Possibly mow and fertilize.

Specs:

Other Comments: This opening has been burned in the past. It might be beneficial to do it again.

Next Steps:

Proposed Start Date: Unspecified

83 NF_53011083-NonFor	3.1	3105 - Mixed Upland Herbaceous				Non-Forest Management	Mowing	310 - Herbaceous Openland	Cmpt. Review Proposal
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Prescription Maintain opening by knocking back encroaching saplings along the edges.

Specs:

Other Comments: This stand has not had any attention in quite some time.

Next Steps:

Proposed Start Date: Unspecified

**Total Treatment
Acreage Proposed: 454.3**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type! #Type!

Prescription Specs:

Other Comment:

Next Steps:

Proposed Start Date: #Type!

Limiting Factor

Total Treatment Acreage Proposed: 0.0

Richard McDonald : Examiner

Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5E	5C	3G	2H	2G
	Available	Not Available							
602	602		Aspen	602					
502	502		Cedar	502					
36	36		Hemlock	36					
10	10		Jack Pine	10					
26	26		Lowland Aspen/Balsam Poplar	26					
165	67	98	Lowland Conifers	40	6	27		9	82
152	91	61	Lowland Deciduous	91	5				56
31	31		Lowland Mixed Forest	31					
69	69		Mixed Upland Deciduous	69					
48	32	15	Natural Mixed Pines	32	15				
465	410	55	Northern Hardwood	410				55	
36	25	11	Red Pine	25			11		
3	3		Tamarack	3					
10	10		Upland Conifers	10					
80	80		Upland Mixed Forest	80					
9		9	Upland Spruce/Fir				9		
2,245	1,995	250	Total Forested Acres	1,968	27	27	20	64	138
	89%	11%	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
002	Not Available	5E: Long Term Retention	15				
Comments:							
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	35				
Comments:							

Report 5 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment 011

Richard McDonald : Examiner

Year of Entry 2016

004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27		
Comments:					
005	Not Available	2G: Too wet (sensitive soils, does not include access issues)	35		
Comments:					
006	Not Available	2G: Too wet (sensitive soils, does not include access issues)	25	3H: Deer Wintering Areas	
Comments:					
007	Not Available	2G: Too wet (sensitive soils, does not include access issues)	14	3H: Deer Wintering Areas	
Comments:					
009	Not Available	5E: Long Term Retention	5		
Comments:					
010	Not Available	5E: Long Term Retention	6		
Comments:					
High percentage of Hemlock in this stand.					

Report 5 – Site Conditions

Pigeon River Country Mgt. Unit

Compartment 011

Richard McDonald : Examiner

Year of Entry 2016

011	Not Available	2G: Too wet (sensitive soils, does not include access issues)	9		
Comments:					
012	Not Available	3G: Other Influence zones - See comments	9		
Comments:					
Manage with adjacent aspen stand when ready.					
013	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9		
Comments:					
014	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	50	5E: Long Term Retention	3G: Other Influence zones - See comments
Comments:					
Influenced by Dog lake Special Management Area					
015	Not Available	2G: Too wet (sensitive soils, does not include access issues)	8		
Comments:					
016	Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	3G: Other Influence zones - See comments	
Comments:					
Influenced by Dog Lake Special Management Area					

017	Not Available	2G: Too wet (sensitive soils, does not include access issues)	13
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Comments:

018	Not Available	3G: Other Influence zones - See comments	11
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Comments:



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				

**Report 7 – 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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4134 - Aspen, Spruce/Fir	High Density Sapling	4.2	24		Nice growing young Aspen stand with heavy conifer (mostly Fir but with a mix of Pine).
2	6129 - Mixed Coniferous Lowland Forest	High Density Log	27.3	95	111-140	Predominantly Hemlock with some mixed cedar and mixed hardwood toward the south end as it transitions into stand 6 and stand 9.
3	6120 - Lowland Cedar	Medium Density Pole	15.1	115	51-80	Wet stand with poor quality wood. Heavy pockets of tag alder throughout the stand.
4	4119 - Mixed Northern Hardwoods	High Density Log	3.3	95	111-140	Tip of larger hardwood ridge that extends from compartment 10 into this compartment and dead ends in the swamp.
6	4111 - S.Maple, Hard Mast Association	High Density Log	146.7	95	111-140	Very high quality hardwood. One of the nicest stands in the forest. It has been thinned twice, the last time being in 2000-01.
7	4133 - Aspen, Mixed Pine	High Density Sapling	9.3	45	1-50	Larger pine is residual from when aspen was cut. Size of aspen has been hindered by that residual. There is quite the variability in aspen diameters throughout the stand, most of which is on the small side.
8	4116 - Mixed N. Hardwood - Aspen	High Density Pole	8.9	48	51-80	Good aspen component, but with the amount of young sugar maple this stand should be managed for sugar maple.
9	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	35.1	93	81-110	Wet hardwood with lots of soft ground. It would be difficult to work because of that.
10	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	34.7	101	51-80	Wet, poor quality swamp drains into Dog Lake. A portion of the southeast end of the stand is dead due, most likely, to higher water levels periodically from Dog Lake.
11	4136 - Aspen, Mixed Conifer	High Density Pole	4.1	45	51-80	Too small diameter to treat now. Mixture of pine of varying diameters may have contributed to suppression of aspen growth.
12	4132 - Aspen, Jack Pine	High Density Sapling	14.4	22		
13	6120 - Lowland Cedar	High Density Pole	138.7	90	81-110	Low swamp along Osmon Rd.. The stand is very wet with water flowing through the stand most of the year.
14	4191 - Mixed Upland Deciduous with Conifer	Medium Density Pole	17.6	45	1-50	
15	42220 - Natural Jack Pine	High Density Sapling	10.3	5		This stand was cut in 2008-09. Jack Pine is coming back very well. There is a scattered Oak component in this stand, but very light.
16	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	25.0	95	81-110	Swamp around access area to Dog Lake. Portion of stand is rather wet. Generally, not a real good quality stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
17	4111 - S.Maple, Hard Mast Association	High Density Pole	58.1	95	81-110	Stand was thinned in 2008. Initial undergrowth was Raspberry and still is quite prevalent. Good quality hardwood but not quite as good as stand to the north and generally runs smaller diameters.
18	4110 - Sugar Maple Association	High Density Log	58.7	95	81-110	Part of a larger stand (stand 1 in comp. 10) that will be treated next entry period for that compartment.
19	42290 - Natural Mixed Pine	High Density Pole	28.6	47	51-80	Poor quality pine along the edge of Dog Lake. Needs some more growth time.
20	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	3.8	32	1-50	Stand was burned around 2000 to try and expand adjacent opening but did not carry a fire very well so it had little effect on existing trees.
23	4319 - Mixed Upland Forest	Medium Density Pole	26.6	26	1-50	Mixed cedar and hemlock with some fir residual left after wildlife cut along swamp edge for winter deer food. Basically a two aged structure within this stand.
24	4130 - Aspen	High Density Pole	6.0	46	51-80	Small pocket of maturing aspen that is kind of a backdrop to a popular camping spot along Osmun Road at various times of the year. Too small to really be merchantable and trees are still on the smaller side.
26	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	5.0	46	51-80	
27	6124 - Lowland Spruce- Fir	Medium Density Pole	14.0	95	51-80	Poor quality with alot of windthrow and is heavily influenced by fluctuating water levels.
28	4130 - Aspen	High Density Sapling	4.4	25		Part of a larger stand in comp. 10. Aspen cut along swamp edge. Stand in good condition.
30	4311 - Pine, Aspen Mix	High Density Pole	2.7	Uneven Age	51-80	
31	6120 - Lowland Cedar	High Density Pole	2.9	98	111-140	Part of larger swamp stand in comp. 10 along creek head. Good wintering pocket for deer. wet stand, not good size to the trees. (2 stick)
34	4199 - Other Mixed Upland Deciduous	High Density Pole	25.5	64	51-80	Peninsula sticking out into Dog Lake marsh. Poor quality hardwood being semi-open in places.
35	4130 - Aspen	High Density Sapling	32.7	24		Good thick Aspen regeneration, some wet areas.
37	6120 - Lowland Cedar	High Density Pole	2.3	95	111-140	small pocket of cedar left when surrounding aspen stand was cut.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	2.5	110	111-140	Small pocket of mature Red Pine/White Pine with hardwood mix at the edge of Dog Lake with the High Country Pathway running through it. Leave for visual consideration along the pathway.
39	42290 - Natural Mixed Pine	High Density Pole	3.8	46	51-80	Mature Red Pine with Jack Pine underneath along the swamp edge primarily. The stand extends north into Comp. 5.
41	4130 - Aspen	High Density Pole	7.6	46	81-110	Some variability throughout the stand, but it may provide an opportunity to help balance the aspen age class. This is part of a larger stand that extends into compartment 5. We will manage all as one.
42	4111 - S.Maple, Hard Mast Association	High Density Pole	47.2	95	111-140	Decent quality hardwood passed over last entry. Some areas tend to be wet, but could work around.
43	4130 - Aspen	High Density Pole	40.1	50	81-110	
44	4133 - Aspen, Mixed Pine	High Density Pole	10.2	39	1-50	Extension of stand 63 (comp 5) but much smaller in diameter than that stand. High Country Pathway runs through this stand.
45	42290 - Natural Mixed Pine	High Density Log	15.2	140	111-140	Pine island along east shore of Dog Lake. Popular camping site by canoers. No access by any other type vehicle.
47	6112 - Lowland Aspen	High Density Sapling	24.1	23		Wet aspen stand at the edge of Dog Lake marsh and can be very wet at times.
48	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	31.1	80	81-110	Mixed lowland hardwood species with heavy fir understory, but not a wet stand.
49	42210 - Natural Red Pine	High Density Pole	16.4	76	81-110	Nice natural Red Pine stand with varying size classes of aspen. Wait to cut when surrounding timber is ready to cut. High Country Pathway runs through stand.
51	42210 - Natural Red Pine	High Density Log	5.7	Uneven Age	141-170	
52	6113 - Lowland Maple	Low Density Pole	2.1	50	1-50	
53	6130 - Fir, Aspen, Maple	Medium Density Pole	15.1	65	1-50	Wet, low quality site. Low connector to Pine "island" on Dog Lake.
54	4130 - Aspen	High Density Pole	10.7	39	81-110	Stand straddles comp. line with comp. 12. The majority of the stand is in 12, so it will be managed with that YOE which is 2020.
55	4139 - Aspen, Mixed Deciduous	High Density Sapling	21.8	23		Nice stand of aspen w/ heavy fir understory. Edges of stand along creek bottom has had aspen removed by beaver activity.

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Pigeon River Country Mgt. Unit

Report 8 – Forested Stands

Compartment: 011
Year of Entry: 2016

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
56	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	8.6	86	51-80	
57	4134 - Aspen, Spruce/Fir	High Density Pole	45.6	44	51-80	Emerging pole stand with heavy fir understory. Adjacent aspen stands are scheduled to be cut. This stand can wait one more rotation.
58	4311 - Pine, Aspen Mix	High Density Sapling	4.8	30	1-50	Varied stand. Stand was cut in early 80's and is predominantly younger aspen with some older pine mixed.
59	4111 - S.Maple, Hard Mast Association	High Density Log	3.6	95	81-110	Portion of larger hardwood stand recently thinned and then had EAB infected Ash removed at the end of 2013.
60	4199 - Other Mixed Upland Deciduous	High Density Log	14.4	95	81-110	Over-mature aspen falling out of the stand. Good RSH habitat along marsh. Difficult access doesn't lend itself to getting this cut. Good retention stand.
61	6124 - Lowland Spruce-Fir	Medium Density Pole	9.9	64	1-50	Very wet stand
63	4134 - Aspen, Spruce/Fir	High Density Sapling	2.2	26		Small part of much larger stand in Comp. 10 - nice aspen.
64	4130 - Aspen	High Density Sapling	21.6	14		Reproduction was fair, but is coming back. North end is thicker.
66	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	32.9	70	1-50	
67	4130 - Aspen	High Density Pole	9.9	26	1-50	
68	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	5.3	84	51-80	Small stand isolated along Dog Lake dam.
69	6120 - Lowland Cedar	High Density Pole	11.4	93	81-110	Swamp below Dog Lake Flooding dam. 2 creeks running through swamps and beginning McMasters Creek.
70	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	4.2	84	51-80	Small island of aspen/fir adjacent to Dog Lake Flooding surrounded by tag alder marsh.
71	4119 - Mixed Northern Hardwoods	High Density Log	4.3	95	81-110	Edge of larger hardwood stand to the east in comp 12. This stand is currently marked and under contract as part of a sale with the adjoining stand.
72	42350 - Upland Hemlock	High Density Log	6.0	95	81-110	
74	4130 - Aspen	High Density Sapling	16.5	24		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
75	4134 - Aspen, Spruce/Fir	High Density Log	44.4	70	81-110	
76	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	13.8	70	81-110	Wet swamp with edge of the stand dying back that is against stand 80 due to water levels.
77	4130 - Aspen	High Density Sapling	18.5	32		Nice aspen
78	4134 - Aspen, Spruce/Fir	High Density Pole	21.6	41	51-80	Nice aspen with heavy fir understory
81	4134 - Aspen, Spruce/Fir	High Density Pole	52.8	41	1-50	Emerging pole stand, but not nearly big enough to harvest. There are plenty of submerchantable stems in this stand still.
82	4134 - Aspen, Spruce/Fir	High Density Pole	8.2	29	1-50	Nice emerging pole stand.
85	6129 - Mixed Coniferous Lowland Forest	High Density Log	6.4	90	51-80	Pocket of Hemlock and some cedar along creek bottom.
86	6132 - Mixed Lowland Forest with Cedar	High Density Pole	16.1	90	1-50	Poor quality swamp with creek flowing through. Wet swamp most of the year. Black Ash is dying out due to EAB.
87	4134 - Aspen, Spruce/Fir	High Density Sapling	2.2	18		Some areas with spotty regeneration. Stand did suffer some browse damage early on. A large portion of this stand extends into the adjacent compartment (12).
88	6120 - Lowland Cedar	High Density Pole	7.7	90	1-50	Wet stand with stream flowing through out of Dog Lake.
89	4134 - Aspen, Spruce/Fir	Medium Density Log	4.1	80	51-80	Pocket of mature aspen and mixed conifer left along creek bottom. Good retention stand with plenty of cavity trees.
90	4110 - Sugar Maple Association	High Density Log	12.8	95	111-140	Stand is already marked and under contract.
91	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Log	10.5	75	81-110	Strip along McMaster's Creek and feeder creek that was never cut. Apparently it was left as a buffer when the adjacent stand 96 was cut. Leave uncut or at least until stand 96 is ready to cut.
95	4110 - Sugar Maple Association	High Density Log	9.0	95	81-110	Good quality hardwood cut selectively about 5 years ago. Part of a larger stand in comp. 10. The whole stand had the ash removed in December 2013 - January 2014.
96	4130 - Aspen	High Density Sapling	28.8	27		
98	4130 - Aspen	High Density Pole	10.8	42	1-50	Nice emerging pole stand, not ready to cut yet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
99	4119 - Mixed Northern Hardwoods	High Density Pole	5.4	95	111-140	End of a ridge not cut when the stand to the south was cut.
100	6117 - Lowland Deciduous, Mixed Coniferous	High Density Pole	8.3	80	51-80	
101	4111 - S.Maple, Hard Mast Association	High Density Log	49.7	95	141-170	Nice stand of hardwood will be good retention stand because there is no access and has been listed as a BSA in the Dog Lake SMA.
102	42340 - Upland Spruce/Fir	High Density Pole	9.3	64	81-110	Mature spruce/fir with aspen stand that is wedged between younger aspen stand and conifer swamp.
103	6119 - Mixed Lowland Deciduous Forest	High Density Pole	12.8	86	111-140	Maple, Birch low hardwood with fir understory. Fairly wet throughout a good part of the year. No good access to this stand plus it's part of the Dog Lake Special Management and is associated with the wetland complex that is meant to be protected by that designation.
104	6113 - Lowland Maple	High Density Sapling	7.7	47		
105	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	16.1	85	81-110	
106	6115 - Lowland Ash	Medium Density	8.1	34		Pocket of Black Ash saplings
107	6129 - Mixed Coniferous Lowland Forest	High Density Log	8.9	104	141-170	Hemlock stand in the middle of a Cedar swamp.
108	6121 - Tamarack	Medium Density Log	2.5	124	1-50	Small pocket of wet Tamarack
109	4130 - Aspen	High Density Sapling	27.9	27		
110	4134 - Aspen, Spruce/Fir	High Density Pole	1.8	27		Small part of larger stand in compartment 12.
111	4134 - Aspen, Spruce/Fir	High Density Pole	3.4	48	51-80	Part of a larger stand in Compartment 12 that is under contract already for final harvest.
112	6120 - Lowland Cedar	High Density Pole	19.3	95	1-50	Poor quality swamp with water flowing through. Black Ash is dying out and nearly all dead.
113	4130 - Aspen	High Density Pole	5.5	37	51-80	Narow strip of aspen along marsh



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
115	4319 - Mixed Upland Forest	High Density Log	46.4	88	51-80	Stand was listed as "Potential Old Growth" in the past as part of the Dog Lake Special Management Area. All wetlands in this compartment were to be protected. This is an island of high ground within a conifer swamp. There is access limitations for this stand.
116	6111 - Lowland Balsam Poplar	High Density Sapling	2.3	36		
117	6120 - Lowland Cedar	High Density Pole	298.7	95	141-170	Stand varies in quality and size. Large swamp complex part of Dog Lake SMA.
118	4134 - Aspen, Spruce/Fir	High Density Sapling	37.4	27		
119	4199 - Other Mixed Upland Deciduous	Medium Density	7.3	20		Aspen did not regenerate well plus there was heavy browsing that impacted the aspen.
120	6120 - Lowland Cedar	High Density Pole	3.8	95	81-110	Small pocket of cedar and mixed deciduous that hasn't been killed out by adjacent stand that was flooded out by high water in stand 114.
121	4130 - Aspen	High Density Pole	15.0	48	51-80	Stand is a little low and holds water for part of the year, but not what I would classify as lowland. Aspen is decent.
122	4130 - Aspen	High Density Pole	2.6	37	1-50	
123	4110 - Sugar Maple Association	High Density Log	28.1	95	111-140	this is part of a larger stand in Compartment 12. It has already been marked to selectively cut and is under contract.
124	4111 - S.Maple, Hard Mast Association	High Density Pole	24.9	95	81-110	Stand was thinned in 2007.
125	42350 - Upland Hemlock	High Density Log	29.6	95	111-140	Strip between good quality hardwood stand and cedar swamp. Substantial Hemlock component.
126	4130 - Aspen	High Density Sapling	7.4	32		Narrow wildlife cut along swamp cut for winter deer food.
127	42210 - Natural Red Pine	High Density Log	11.0	88	81-110	Part of much larger stand in Comp. 17. Manage with that stand when it comes due probably next entry.
128	4136 - Aspen, Mixed Conifer	High Density Sapling	8.8	27		Young aspen stand that had hemlock residual after the last cut.
129	4134 - Aspen, Spruce/Fir	High Density Sapling	8.9	28		
130	4110 - Sugar Maple Association	High Density Pole	4.6	95	81-110	Tip of larger stand in Comp. 17. Thinned last entry - early 2000's

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Pigeon River Country Mgt. Unit

Report 8 – Forested Stands

Compartment: 011
Year of Entry: 2016



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
131	4130 - Aspen	High Density Pole	30.7	37	1-50	
132	6120 - Lowland Cedar	High Density Pole	2.4	100	141-170	Small portion of larger stand (2) in Comp. 18



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	6220 - Alder/willow	10.2	No	Unspecified	
21	3102 - Grass	27.3	Yes	High	
22	3102 - Grass	20.8	Yes	High	
25	3105 - Mixed Upland Herbaceous	1.1	No	Unspecified	Small opening along Osmun Road popular with camping at various times of the year.
29	3105 - Mixed Upland Herbaceous	3.2	No	Unspecified	Natural opening with bracken and grasses and scattered conifers throughout.
32	629 - Mixed non-forested wetland	2.6	No	Unspecified	
33	3105 - Mixed Upland Herbaceous	1.9	No	Unspecified	
36	6220 - Alder/willow	2.6	No	Unspecified	
40	50 - Water	200.9	No	Unspecified	
46	6239 - Mixed Emergent Wetland	814.2	No	Unspecified	Large wetland complex surrounding Dog Lake and the flooding. species composition is highly variable throughout. Part of it has more bog characteristics (north end) with the southern end being dominated by tag alder in most areas. Water levels are quite variable seasonally.
50	6239 - Mixed Emergent Wetland	51.4	No	Unspecified	Marshy creek bottom with periodic beaver flooding along McMaster's Creek
62	50 - Water	54.0	No	Unspecified	Dog Lake Flooding
65	3102 - Grass	3.1	No	Unspecified	Old Tordon-created opening that has not been maintained in many years. White pine and other conifers are starting to fill in around the edges.
73	3105 - Mixed Upland Herbaceous	1.3	No	Unspecified	
79	3105 - Mixed Upland Herbaceous	1.8	No	Unspecified	
80	6239 - Mixed Emergent Wetland	4.3	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
83	3105 - Mixed Upland Herbaceous	3.1	Yes	Low	
84	6239 - Mixed Emergent Wetland	63.1	No	Unspecified	McMasters Creek bottom. Most has grownup to Alder. Regular beaver activity keeps some areas more open.
92	50 - Water	6.6	Unspecified	Unspecified	Large beaver flooding with the dam just south of the road and beavers are building dams on the road.
93	6239 - Mixed Emergent Wetland	11.6	No	Unspecified	
94	31022 - Warm Season Grass	2.4	Yes	Medium	
97	629 - Mixed non-forested wetland	20.5	No	Unspecified	Creek bottom that is periodically flooded due to beaver activity. This creek flows into McMaster's Creek.
114	6223 - Inundated Shrub Swamp	11.0	No	Unspecified	Mixed wetland species with heavy tag alder and willow component. Flooded year round with water levels controlled by road and also by beavers. Scattered dead timber toward the west side of stand along cedar swamp.