



Compartment Review Presentation

Escanaba Forest Management Unit

Compartment 80

Entry Year 2015

Acreage: 1,027

County Delta

Management Area: Green Bay Lake Plain

Revision Date: 07/12/2013

Stand Examiner: Dan Racine

Legal Description:

T37N, R24W, SEC. 3, 10, 15, 22, 27, Delta County, Michigan

Identified Planning Goals:

Management will occur on 276 acres in this compartment. The 5 timber types that will be treated using a variety of silvicultural treatments are Aspen, Lowland Coniferous, Lowland Deciduous, Mixed Upland Conifer, Natural Pine, and Other Upland Conifer. Hemlock regeneration has had success in this area, so treatment of the hemlock stands in this area will focus on trying to recruit what has already began regenerating into the overstory, and trying to establish regeneration in the stands that have not been treated. Most of the pine types have been cut in previous years and contain a good amount of young pine seedlings, the focus in these stands, will be to open it up and allow the seedlings to grow.

Soil and topography:

Topography is level to slightly rolling. Soils are poorly drained, somewhat poorly drained, and well drained sands and very poorly drained, extremely acid mucks and peats. Major soil series are AuGres, Rubicon, Roscommon, Charlevoix, Tawas, and Ensley.

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

This compartment is spread between five sections of land on the east side of T37N, R24W. Most of the ownership in and around the compartment is non industrial private lands. The major land use is forest management, with opportunities for hunting, fishing, trapping and camping. The Forest Island O.R.V. trailhead is located in this compartment and provides for the opportunity for this type of recreational activity.

Unique Natural Features:

No Unique Natural Features known.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

The Bark River watershed is located in this area. There has been some sediment trap work done in this area. Special consideration should be given along this watershed when timber sale work is being done.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of medium-textured glacial till and lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton Limestone underlies the glacial drift. The Trenton is quarried for stone just west of Escanaba. This Compartment has not been previously leased for metallic exploration. Gravel pits are located in Section 10 and there appears to be potential. No economic oil and gas production has been found in the UP.

Vehicle Access:

Most of the access into the compartment is poor due to private ownership and type of terrain. The only good access is off the Bark River Truck Trail into that part of the compartment that is located in Section 10.

Survey Needs:

None.

Recreational Facilities and Opportunities:

Hunting, trapping, fishing and camping are the main opportunities available in this area. The Forest Islands O.R.V. Trail also provides a good opportunity for O.R.V. riders.

Fire Protection:

Fire could be a problem in this area due to the lack of good access, should a fire get started in this area.

Additional Compartment Information:

The following reports from the Inventory are attached:

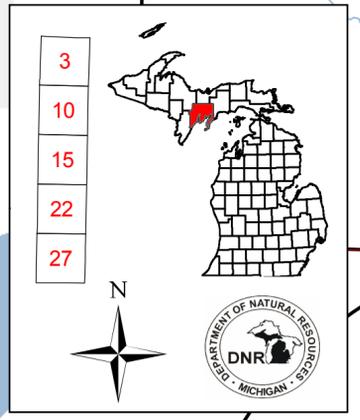
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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 & Treatment Map

Stand #
23
(4120) - A7
Level 3 OI
Level 4 Code
Cover Type Code



Compartment: 080
T37N R24W
03 10 15 22 27
County: Delta
Unit: Escanaba
YOE: 2015
Acres: 1,027 GIS Calculated
Examiner: Dan Racine
Map Revised: 07/22/2013
Map Phase: Pre-Review

Legend

- Miris Corners
- Bridges
- ORV Trails
- ORV Trail
- State Highway
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Stream
- Intermittent Stream
- Lakes and Rivers
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Other Treatment - See Comments

Forest Stands

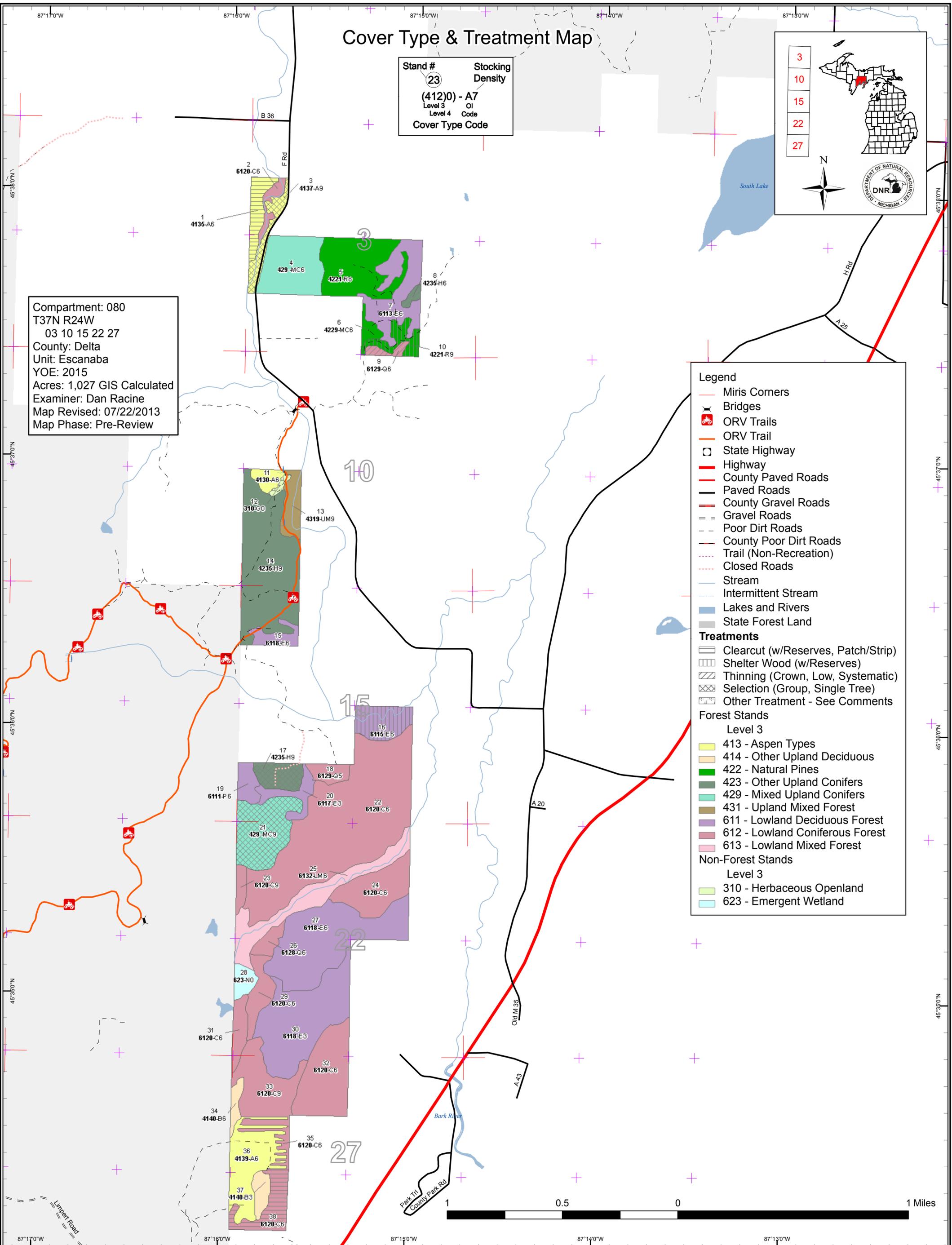
Level 3

- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

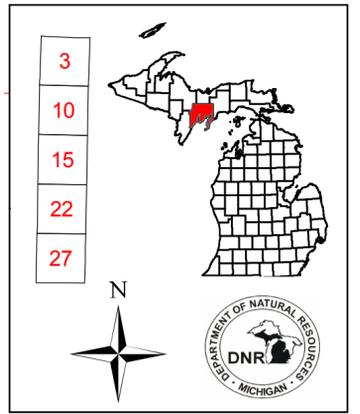
Level 3

- 310 - Herbaceous Openland
- 623 - Emergent Wetland



Special Conservation Areas & Site Conditions Map

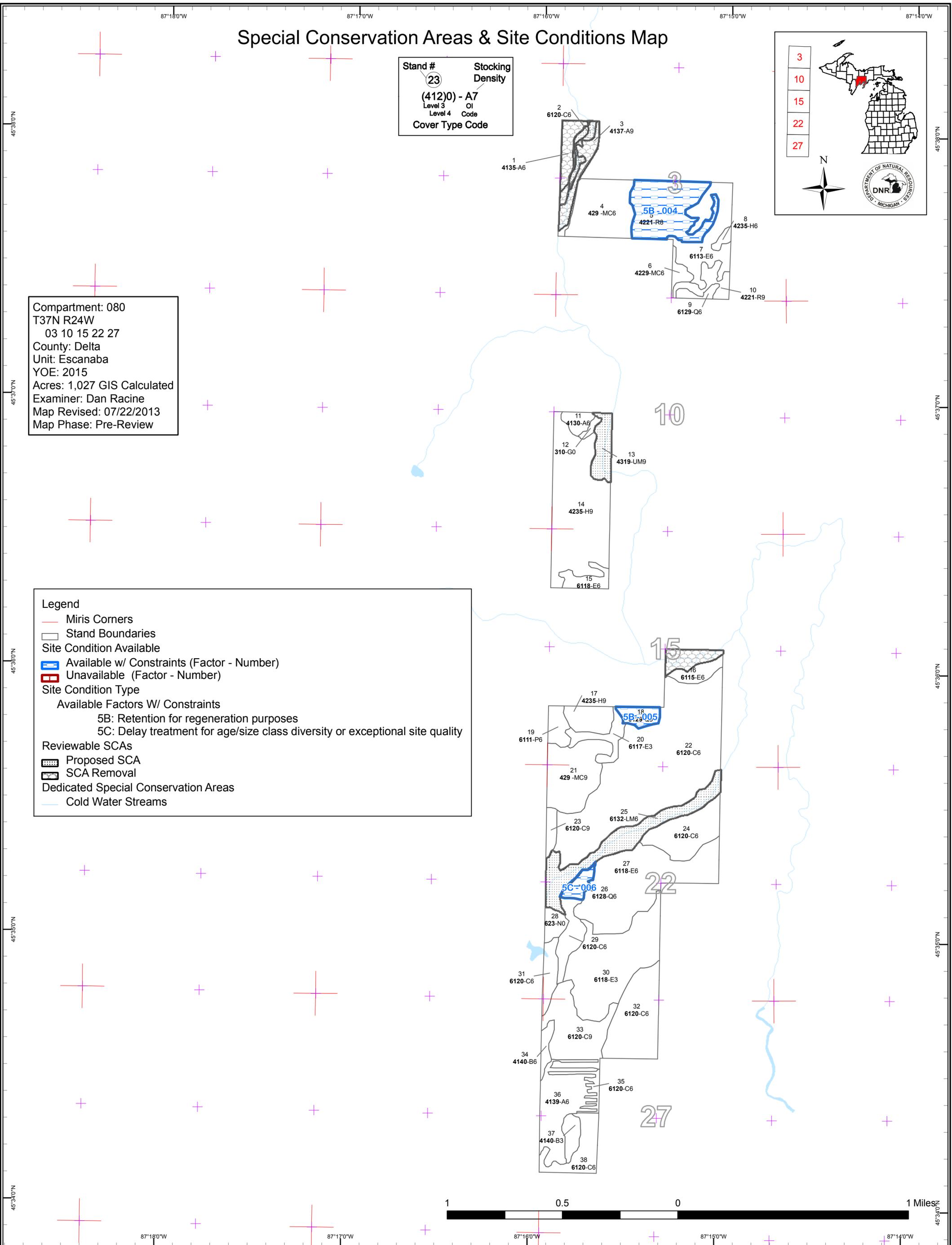
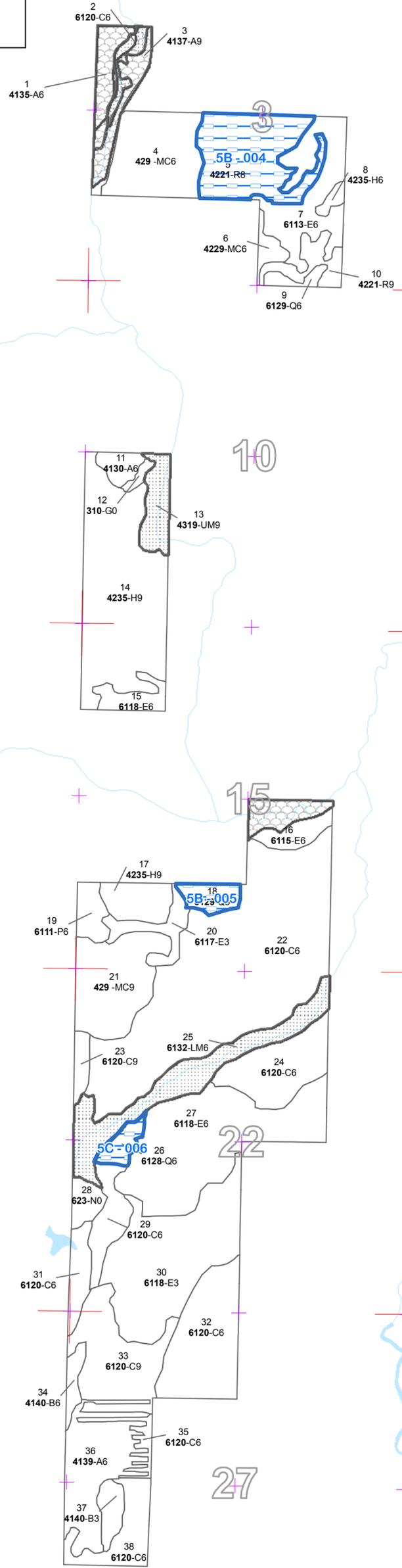
Stand #
 23
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code



Compartment: 080
 T37N R24W
 03 10 15 22 27
 County: Delta
 Unit: Escanaba
 YOY: 2015
 Acres: 1,027 GIS Calculated
 Examiner: Dan Racine
 Map Revised: 07/22/2013
 Map Phase: Pre-Review

Legend

- Miris Corners
- Stand Boundaries
- Site Condition Available
 - Available w/ Constraints (Factor - Number)
 - Unavailable (Factor - Number)
- Site Condition Type
 - Available Factors W/ Constraints
 - 5B: Retention for regeneration purposes
 - 5C: Delay treatment for age/size class diversity or exceptional site quality
- Reviewable SCAs
 - Proposed SCA
 - SCA Removal
- Dedicated Special Conservation Areas
 - Cold Water Streams



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	0	6	41	0	0	0	25	0	0	0	0	0	0	73
Cedar	0	0	0	0	0	0	0	0	33	0	319	0	5	0	357
Hemlock	0	0	0	0	0	0	0	0	0	0	90	3	14	0	107
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	0	9	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	4	16	0	0	19
Lowland Deciduous	0	96	75	0	0	0	0	47	0	20	0	0	0	0	238
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	42	0	0	0	42
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Natural Mixed Pines	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Paper Birch	8	0	0	5	0	0	0	0	0	0	0	0	0	0	13
Red Pine	0	0	0	0	0	0	0	0	0	48	11	0	0	0	59
Upland Conifers	0	0	0	0	0	0	0	41	0	0	0	0	41	0	82
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	14	0	14
Total	17	96	86	55	0	0	0	114	33	69	466	18	74	0	1027



Report 2 – Proposed Treatment Summaries

Escanaba Mgt. Unit
Year of Entry 2015

Compartment 080
Total Compartment Acres: 1,027

Acres by Treatment Type

Commercial Harvest - 177 Tree Planting - 0 Other - 0
 Habitat Cut - 0 Opening Maintenance - 2

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen Types	13	13	0	0	0	0	0	25
Lowland Coniferous Forest	20	0	0	0	4	0	0	23
Lowland Deciduous Forest	38	0	0	20	0	0	0	59
Mixed Upland Conifers	0	41	0	0	0	0	0	41
Natural Pines	0	0	0	11	0	0	0	11
Other Upland Conifers	0	14	0	0	3	0	0	17
Total	71	68	0	31	7	0	0	177



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	33080001-Cut	12.9	4135 - Aspen, Cedar	High Density Pole	72		Harvest	Clearcut with Reserves	4134 - Aspen, Spruce/Fir	Cmpt. Review Proposal

Prescription Clearcut leaving a 1 chain reserve area (buffer) along the Bark River.

Specs:

Other Access will be from the west through private land.

Comments:

Next Regen check per work instructions. Acceptable regen spp = A, P, Fb and Fs.

Steps:

Proposed

Start Date: 10/01/2014

3	33080003-Cut	12.6	4137 - Aspen, Birch	High Density Log	72		Harvest	Single Tree Selection	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Remove the mature aspen, birch, spruce/fir, between the county road and the river. Do not cut Cedar and Hemlock.

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2014

8	33080008-Cut	2.7	42350 - Upland Hemlock	High Density Pole	112		Harvest	Crown Thinning	4312 - Hemlock, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Thin hemlock to the recommended stocking level per the eastern hemlock guide.

Specs:

Other

Comments:

Next Monitor stand and if regen occurs, manage using the eastern hemlock silviculture guide.

Steps:

Proposed

Start Date: 10/01/2014

9	33080009-Cut	3.8	6129 - Mixed Coniferous Lowland Forest	High Density Pole	108		Harvest	Crown Thinning	6131 - Hemlock, White Pine, Maple, Birch	Cmpt. Review Proposal
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Prescription Thin stand to recommended stocking levels according to the eastern hemlock silviculture guide.

Specs:

Other

Comments:

Next Monitor stand and if hemlock regen occurs, treat as prescribed using the eastern hemlock guidelines.

Steps:

Proposed

Start Date: 10/01/2014



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
10 33080010-Cut	11.1	42210 - Natural Red Pine	High Density Log	109	1-50	Harvest	Shelterwood	42210 - Natural Red Pine	Cmpt. Review Proposal

Prescription Thin stand down to 40-90 BA. where stand has regen started, thin to 40BA, where stand has very little regen mark between 70-90 BA. Leave
Specs: Hemlock and cedar in SE corner of stand

Other
Comments:

Next Regen check per work instructions. Acceptable regen spp = Rp, Wp.
Steps:

Proposed
Start Date: 10/01/2014

16 33080016-Cut	20.4	6115 - Lowland Ash	High Density Pole	90		Harvest	Shelterwood	6115 - Lowland Ash	Cmpt. Review Proposal
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Prescription No treatment within 1 chain of the river. No treatment north of the river. Remove most of the trees (> than 6"dbh) leaving a BA of 30 -40..
Specs: Leave Cedar.

Other Access will be from the west through private land.
Comments:

Next Regen check per work instructions. Acceptable regen spp = Rmaple, Balm and ash.
Steps:

Proposed
Start Date: 10/01/2014

17 33080017-Cut	14.2	42350 - Upland Hemlock	High Density Log	125	141-170	Harvest	Group Selection	4312 - Hemlock, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Group Selection, Create gaps to allow establishment of regeneration of the parent stand. Thin other areas of the stand down to 70-80 BA. Where
Specs: hemlock is heavy thin BA to the recommended stocking level per the Eastern Hemlock Guidance.

Other Stand was selectively cut in 1990. Some Wp, Fb, and Rm regeneration but not alot.
Comments:

Next Conduct regen check per work instructions. Acceptable regen spp = Wp, Fb, Rm, Yb, and H.
Steps:

Proposed
Start Date: 10/01/2014

21 33080021-Cut	41.2	429 - Mixed Upland Conifers	High Density Log	125		Harvest	Group Selection	4113 - R.Maple, Conifer	Cmpt. Review Proposal
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Prescription Group Selection - Create canopy gaps about 2 X the height of the overstory and leave most of the pine in these gaps.
Specs:

Other Stand treated in 2008, Z's Legacy Sale
Comments:

Next Conduct regeneration check per work instructions, Acceptable regen spp = Rmaple, Y. birch , Wpine and hemlock.
Steps:

Proposed
Start Date: 10/01/2014

38 33080038-Cut	19.7	6120 - Lowland Cedar	High Density Pole	106		Harvest	Clearcut with Reserves	6117 - Lowland Deciduous, Mixed Coniferous	Cmpt. Review Proposal
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Prescription Clear-cut w/ reserves. leave residual patches .1 - .5 ac in size scattered throughout the stand. Try to place these where the cedar has a tendency
Specs: to be heavier.

Other Cedar is catfaced and crooked. Ash, Wb, Rm, Fb and Fs is overmature.
Comments:

Next Conduct regen check per work instructions. Acceptable regen spp= P, Rm, Wb, Fb, Fs, Ash and Cedar.
Steps:

Proposed
Start Date: 10/01/2014



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12 NF_33080012-NonFor	2.0	31022 - Warm Season Grass				Non-Forest Management	Other - Specify	310 - Herbaceous Openland	Cmpt. Review Proposal

Prescription: Enhance and perpetuate opening. Cut brush and trees, mow, till, plant, and/or fertilize. Burn and/or herbicide if need and funding present. Hard
Specs: or soft mast plants, shrubs, and trees may be planted if available. Herbaceous plantings will be to provide forage, brood rearing, and recreational opportunities

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

Total Treatment Acreage Proposed: 140.6



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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!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

**Total Treatment
Acreage Proposed: 0**

Report 5 – Site Conditions

Escanaba Mgt. Unit
Dan Racine : Examiner

Compartment 080
Year of Entry 2015

Availability for Management

Total Acres	Acres		Dominant Site Conditions	No	5C	5B
	Available	Not Available				
73	73		Aspen	73		
357	357		Cedar	357		
107	107		Hemlock	107		
9	9		Lowland Aspen/Balsam Poplar	9		
19	19		Lowland Conifers	4	7	8
238	238		Lowland Deciduous	238		
42	42		Lowland Mixed Forest	42		
5	5		Natural Mixed Pines	5		
13	13		Paper Birch	13		
59	59		Red Pine	11		48
82	82		Upland Conifers	82		
14	14		Upland Mixed Forest	14		
1,018	1,018		Total Forested Acres	954	7	57
	100%		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
004	Available	5B: Retention for regeneration purposes	48				
Comments:							
005	Available	5B: Retention for regeneration purposes	9				
Comments:							

Report 5 – Site Conditions

Escanaba Mgt. Unit

Dan Racine : Examiner

Compartment 080

Year of Entry 2015

006	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7
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Comments:

To small of an area to treat alone. Treat when strips to the south are ready to be treated, probably next treatment period.



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
SCA #1 Comments	Spring-Seeps, Riparian Areas	Riparian Area	SCA	5.9
SCA #2 Comments	Spring-Seeps, Riparian Areas	Riparian Area	SCA	13.5
SCA #3 Comments	Spring-Seeps, Riparian Areas	Riparian Area	SCA	41.5
Alot of blowdown of all spp., Tops of yb, rm, ash are dying. Floodplain of a tributary of the Bark River.				
SCA removal #1 Comments	Potential Old Growth		SCA Removal	10.9
OLD GROWTH POT. ASH IS GREEN ASH NOT WHITE, BUT THERE IS NO SPECIES # FOR GREEN ASH.				
Unspecified Comments	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	12.9
Unspecified Comments	Spring-Seeps, Riparian Areas	Riparian Area	SCA Removal	17.6



Report 7 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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 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.

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Escanaba Mgt. Unit

Report 8 – Forested Stands

Compartment: 080
Year of Entry: 2015

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4135 - Aspen, Cedar	High Density Pole	12.9	72		
6120 - Lowland Cedar	High Density Pole	6.1	106		Stand borders the Bark River.
4137 - Aspen, Birch	High Density Log	12.6	72		
429 - Mixed Upland Conifers	High Density Pole	41.2	72		
42210 - Natural Red Pine	Medium Density Log	48.3	98	51-80	Stand was treated in 2006.
42290 - Natural Mixed Pine	High Density Pole	4.8	26		
6113 - Lowland Maple	High Density Pole	38.3	75		Stand is currently under contract. Gyrzb Hardwood sale.
42350 - Upland Hemlock	High Density Pole	2.7	112		
6129 - Mixed Coniferous Lowland Forest	High Density Pole	3.8	108		
42210 - Natural Red Pine	High Density Log	11.1	109	1-50	
4130 - Aspen	High Density Pole	6.4	28		
4319 - Mixed Upland Forest	High Density Log	13.5	127		
42350 - Upland Hemlock	High Density Log	90.2	108		
6118 - Lowland Deciduous with Cedar	High Density Pole	8.9	70		
6115 - Lowland Ash	High Density Pole	20.4	90		
42350 - Upland Hemlock	High Density Log	14.2	125	141-170	
6129 - Mixed Coniferous Lowland Forest	Medium Density Pole	8.5	112	51-80	
6111 - Lowland Balsam Poplar	High Density Pole	8.9	36		



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
20	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	11.5	12		Phragmites is located within this stand.
21	429 - Mixed Upland Conifers	High Density Log	41.2	125		
22	6120 - Lowland Cedar	High Density Pole	173.4	102		Cedar with small diameter ash, wb, fb fs 4-7" dbh.
23	6120 - Lowland Cedar	High Density Log	5.3	121		
24	6120 - Lowland Cedar	High Density Pole	32.7	82		
25	6132 - Mixed Lowland Forest with Cedar	High Density Pole	41.5	103	81-110	Alot of blowdown of all spp., Tops of yb, rm, ash are dying. Floodplain of a tributary of the Bark River.
26	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	7.1	112		Good size hemlock and Pine. Rm and Sm are just getting into sawlog size.
27	6118 - Lowland Deciduous with Cedar	High Density Pole	84.4	15		Lots of cedar blowdown.
29	6120 - Lowland Cedar	High Density Pole	14.9	106		Mix of high ground cedar and lowground. Strips were harvested in this area and came back to a mix of spp. , ash, Fs, Fb, P, Rm, and Wb. Timber in strips average 7" dbh, 3-4 sticks tall, mostly Wb.
30	6118 - Lowland Deciduous with Cedar	High Density Sapling	74.8	20		
31	6120 - Lowland Cedar	High Density Pole	10.5	106		Poor quality cedar, short, crooked, stunted, lots of blowdown.
32	6120 - Lowland Cedar	High Density Pole	46.4	106		Spruce, white pine and balsam is scattered. Cedar is 5-7" dbh, 3 sticks. Spruce is 9" dbh but scattered. Fb mostly unmerchantable 3-4" dbh, 1 stick. Small patch on east side is balm and Fb that is filling in.
33	6120 - Lowland Cedar	High Density Log	42.1	106		High ground cedar. Areas that were harvested are filling in with ash, P, Wb, and maple.
34	4140 - Other Upland Deciduous	High Density Pole	5.4	36		Was cut, regenerated back to G. ash, Wb and Rm. Some of the timber is ready to be harvested(must have been left) but it is scattered throughout stand.
35	6120 - Lowland Cedar	High Density Pole	6.0	106		Leave strips.
36	4139 - Aspen, Mixed Deciduous	High Density Pole	40.7	33		

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Escanaba Mgt. Unit

Report 8 – Forested Stands

Compartment: 080
Year of Entry: 2015



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	4140 - Other Upland Deciduous	High Density Sapling	7.6	5		Mix of high and low ground, primarily a P stand. There are some open areas that will probably fill in with sp/fb. Heavy blowdown on east side.
38	6120 - Lowland Cedar	High Density Pole	19.7	106		



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
12	31022 - Warm Season Grass	2.0	N/A	Unspecified	
28	6233 - Wet Meadow	7.1	No	Unspecified	