

# **Compartment Review Presentation**

**Escanaba Forest Management Unit** 

Compartment 33042 Entry Year 2017 Acreage: 2,500

**County Menominee** 

Management Area: Green Bay Lake Plain

Revision Date: 2015-07-10

Stand Examiner: Dustin Salter

**Legal Description:** 

T36N R25W Sections 4, 5, 8, 9, 16, and 17

#### **Identified Planning Goals:**

This compartment is comprised of four main covertypes: aspen, northern hardwood, lowland conifer, and lowland hardwood. There are numerous aspen stands prescribed for cutting this entry period. The majority of these stands are mature and ready to be regenerated. There are a couple of stands that are slightly younger that have a significant amount of balsam fir and spruce in them. The Spruce Budworm is present throughout this compartment, including in these stands. The intent is to harvest these stands prior to mortality occurring and regenerating the aspen. A low quality/vigor aspen stand will be converted to red pine. There are five good to high quality northern hardwood stands that will be thinned as well. A number of mature lowland conifer stands will also be harvested. There is significant tamarack mortality throughout the compartment, so the intention is to salvage/harvest as much as we can before it all dies. It is also important to open these stands up for regeneration while the tamarack seed is still viable. The majority of the lowland ash/hardwood stands are prescribed for harvest. This intent is to harvest/regenerate these stands prior to the arrival of the Emerald Ash Borer. There are also a couple of red maple/pine stands that will be treated. A couple of these stands were shelterwood cut in the past and now the regeneration needs to be released, so the overstory needs to be removed. There is some Autumn Olive in the southeastern part of the compartment that needs to be removed/sprayed.

## Soil and topography:

The primary soils in this compartment are Tawas-Deford, Lupton-Tawas, Deford mucky find sand, Onaway fine sandy loam, and Rousseau fine sand. The upland soils range are mostly level with some steep ridges and knolls mixed in, and they are well drained. The lowland is level and is very poorly drained.

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

This compartment is on the northern end of a block of state land that is approximately 8 miles wide and 20 miles long, that extends into Delta County. This compartment is primarily blocked in on the east, north, and south with adjoining state land. The western edge of the compartment borders private property. There are a number of houses and camps along the western edge of the compartment. The primary uses of this area are hunting, camping, cross country skiing and ORV riding.

#### **Unique Natural Features:**

The Cedar River flows through the eastern edge of the compartment.

#### Archeological, Historical, and Cultural Features:

None Known

#### **Special Management Designations or Considerations:**

None

#### **Watershed and Fisheries Considerations:**

The Cedar River and Devil's Creek flow through this compartment.

#### Wildlife Habitat Considerations:

Currently this compartment is comprised of a large acreage of aspen and northern hardwoods, particularly in the south half. The north half of the compartment has more lowland conifer present. The management treatments this decade are to regenerate mature aspen stands which will benefit early successional wildlife species. Some lowland conifer stands will be cut due to the presence of spruce budworm and eastern larch beetle. In addition, upland mixed deciduous stands will be clearcut and will provide good early successional wildlife habitat. Game species including white-tailed deer, wild turkey, ruffed grouse, and woodcock will benefit from the creation of early successional habitat. The dense stands of cedar will be retained for wildlife cover. Forest stands along the Big Cedar River have been protected with a designation of "special conservation area". This designation will allow trees to grow larger, develop cavities for dens and nest sites, and provide woody debris on the forest floor - to the benefit of riparian wildlife species.

#### Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel and medium-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton and Black River formations underlie the glacial drift, and the Trenton Formation is quarried for stone near Escanaba. State land in this area has not been leased previously. An overgrown gravel pit is located in Section 19 and there is potential on the upland drumlins. No economic oil and gas production has been found in the UP.

#### **Vehicle Access:**

The primary access roads into and through this compartment are County Roads 366, 551, D-4, No 29, and Westman Dam. There are numerous two track roads that branch off of these county roads that provide additional access.

#### **Survey Needs:**

Approximately 15 registered corners will need to be established.

#### **Recreational Facilities and Opportunities:**

The Forest Island ORV Trail and the Cedar River Pathway run through the southeastern portion of the compartment - east of the Cedar River. The primary recreational uses of this area are hunting, camping, ORV riding, horseback riding, and cross country skiing.

#### **Fire Protection:**

This compartment poses a low risk for any large scale fires. The dry upland areas are interspersed with lowland areas. The only significant threat would be, is if we do not harvest the majority of the spruce/fir prior to the Spruce Budworm causing a substantial amount of mortality. The main water sources would be Cedar River and Devil's Creek. Access in the spring could be an issues on some of the two track roads.

### **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

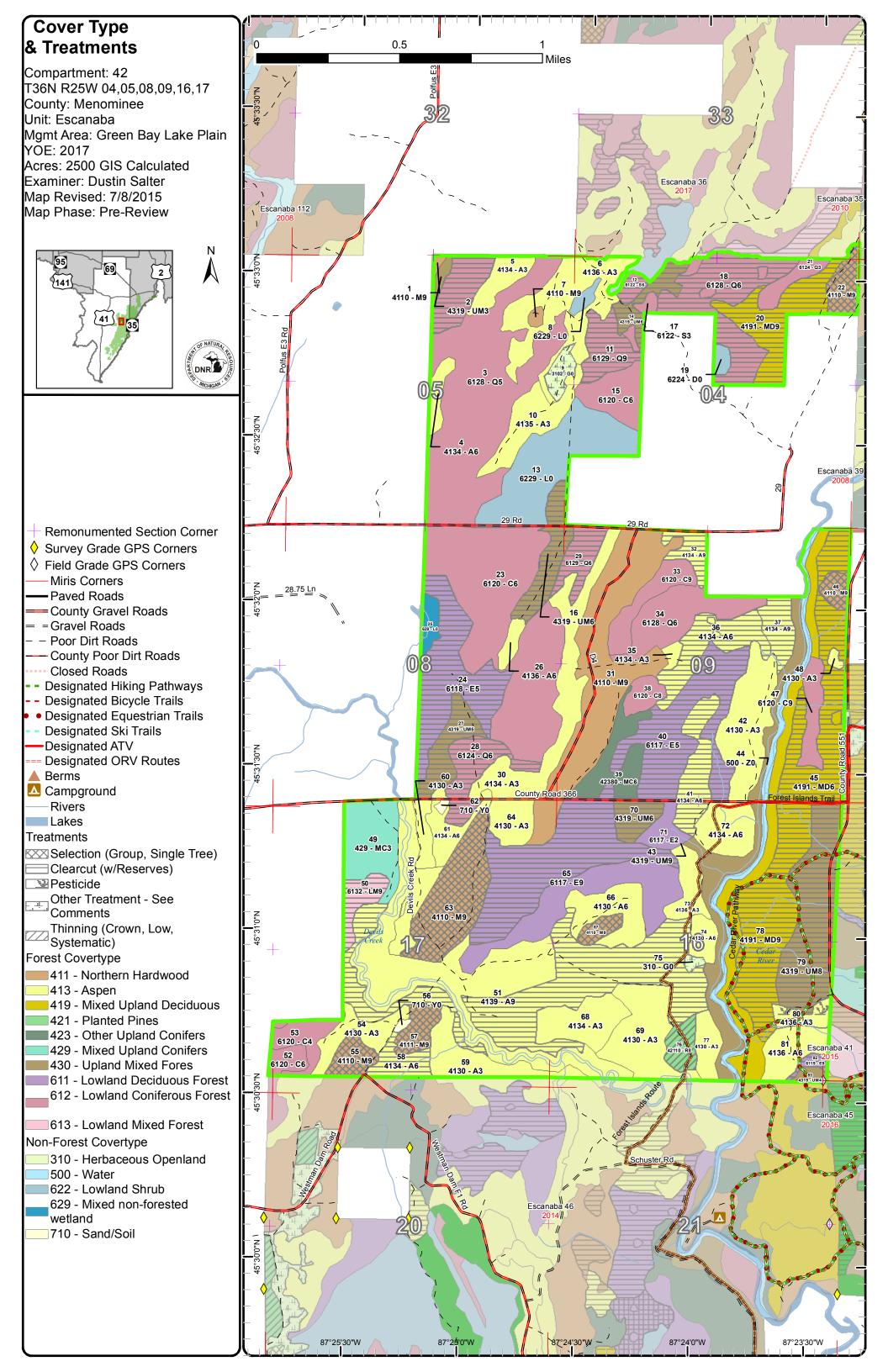
**Dustin Salter: Examiner** 

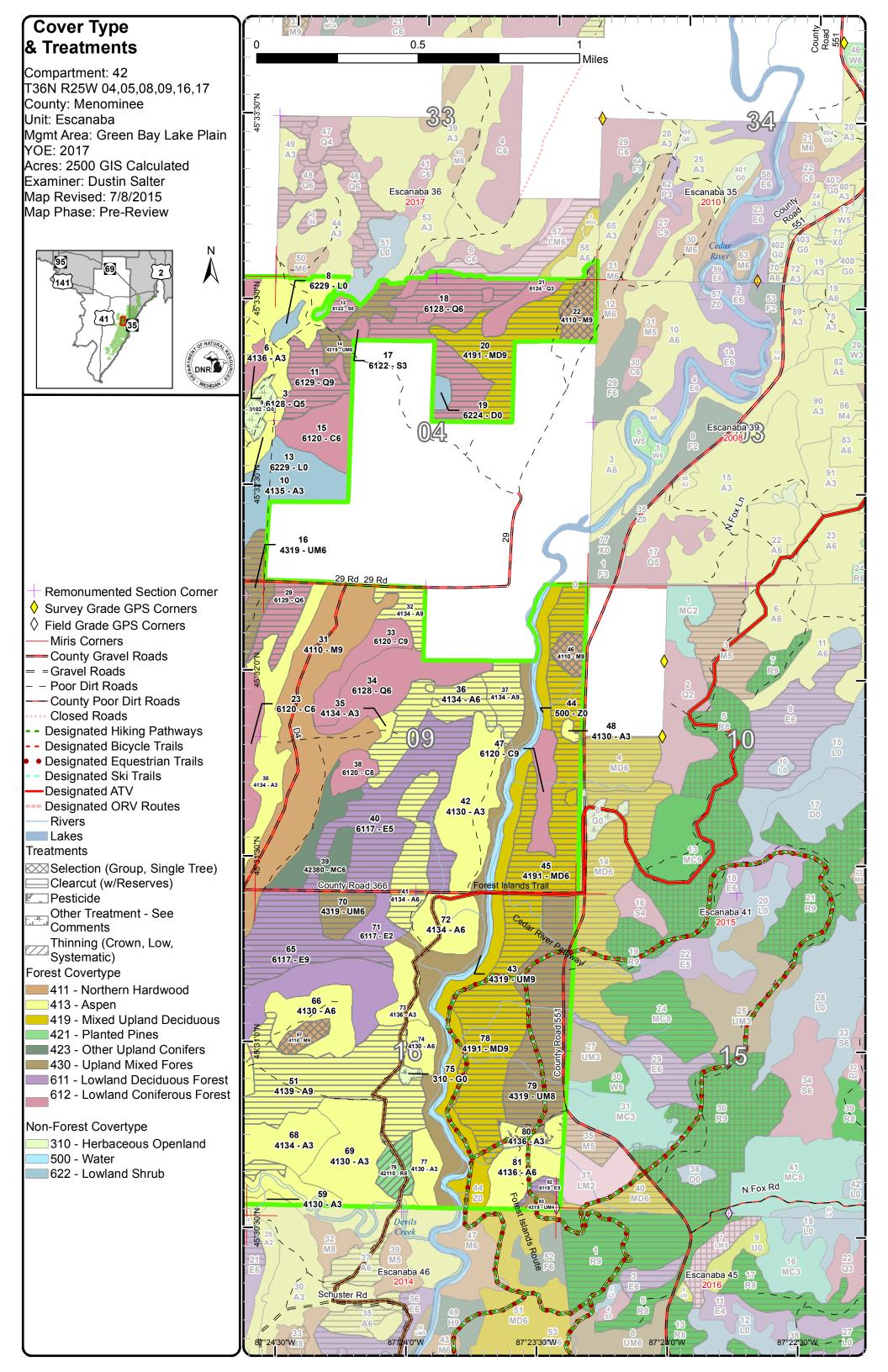
Compartment 42 Year of Entry 2017

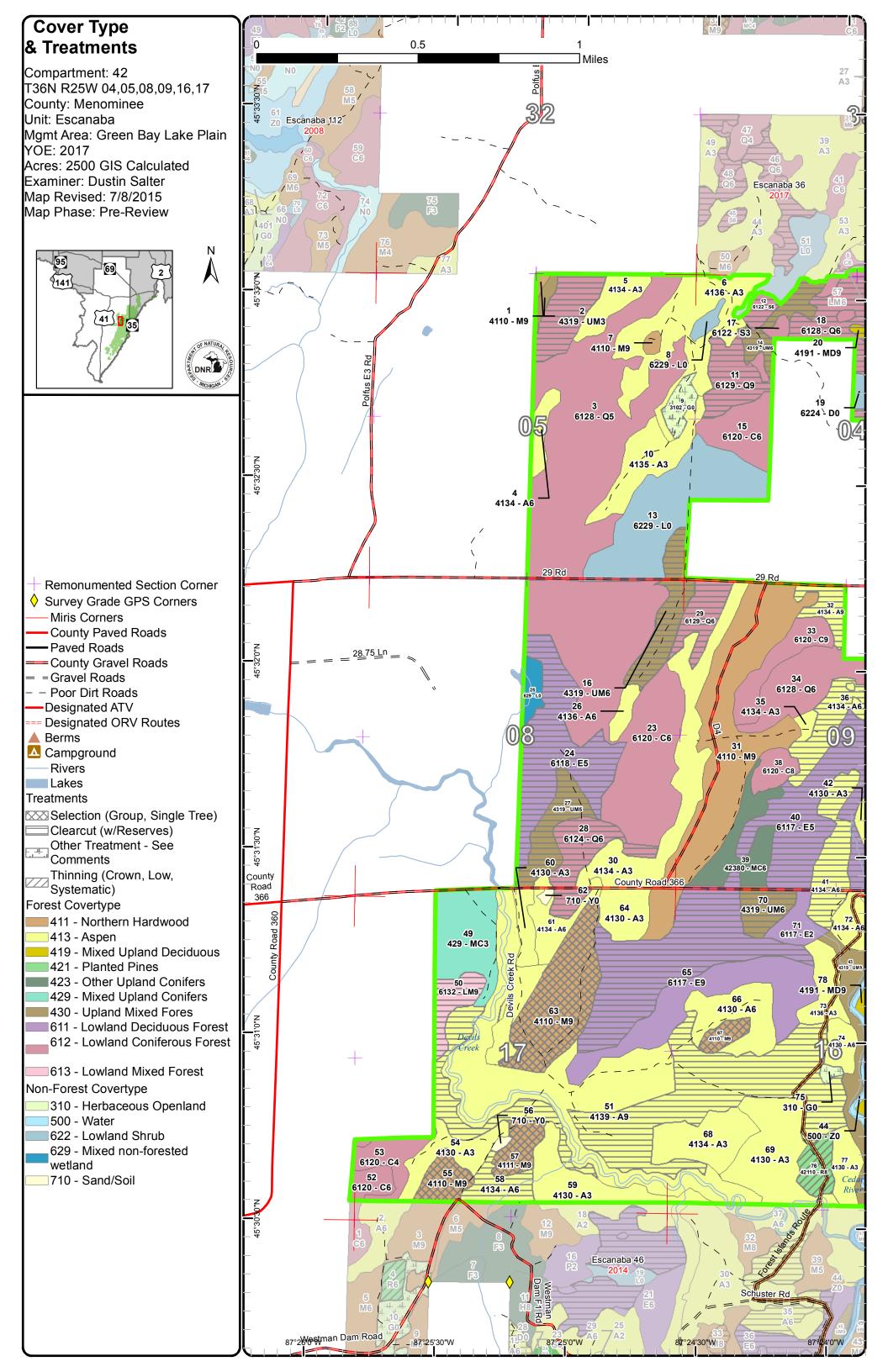


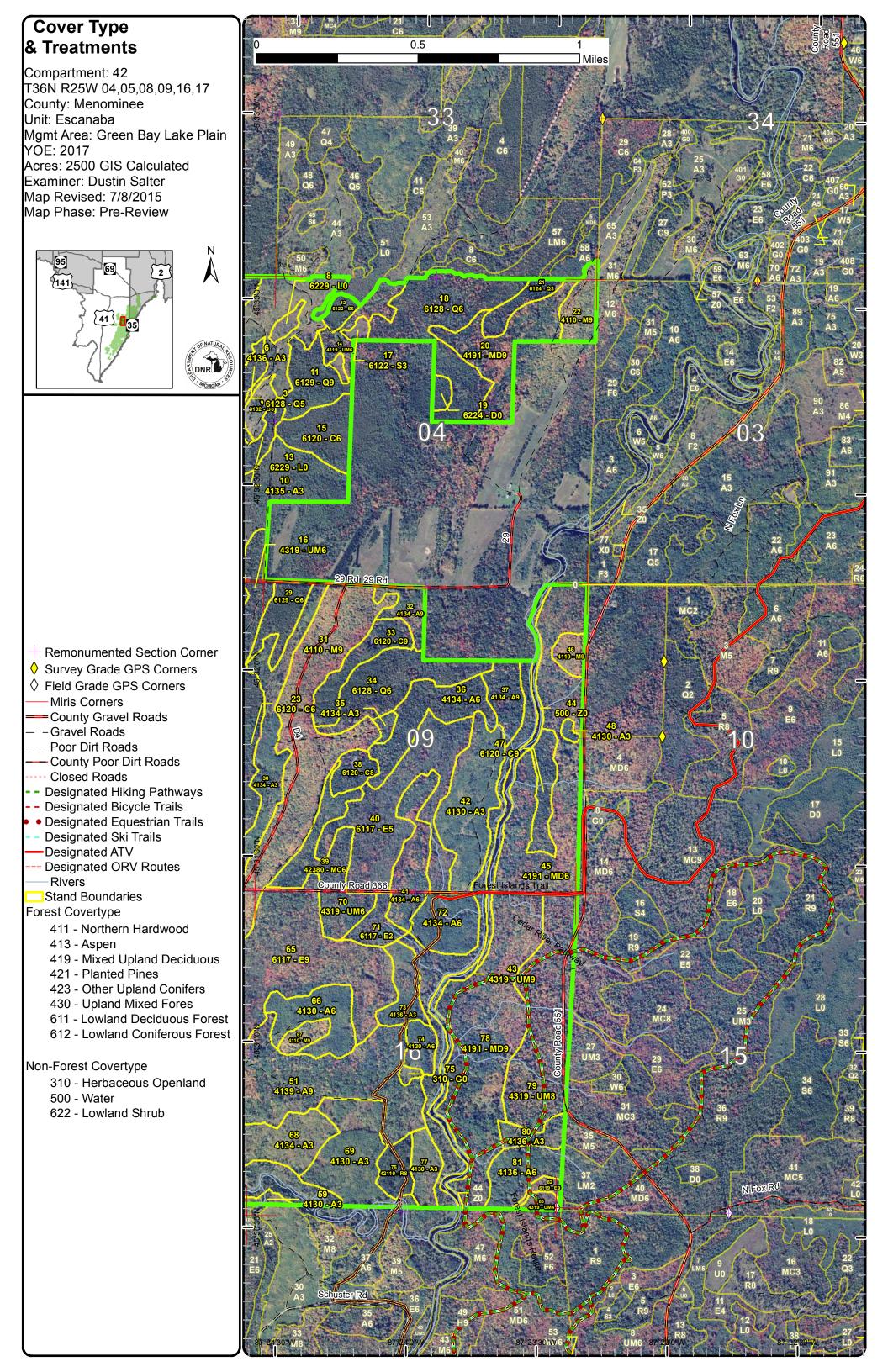
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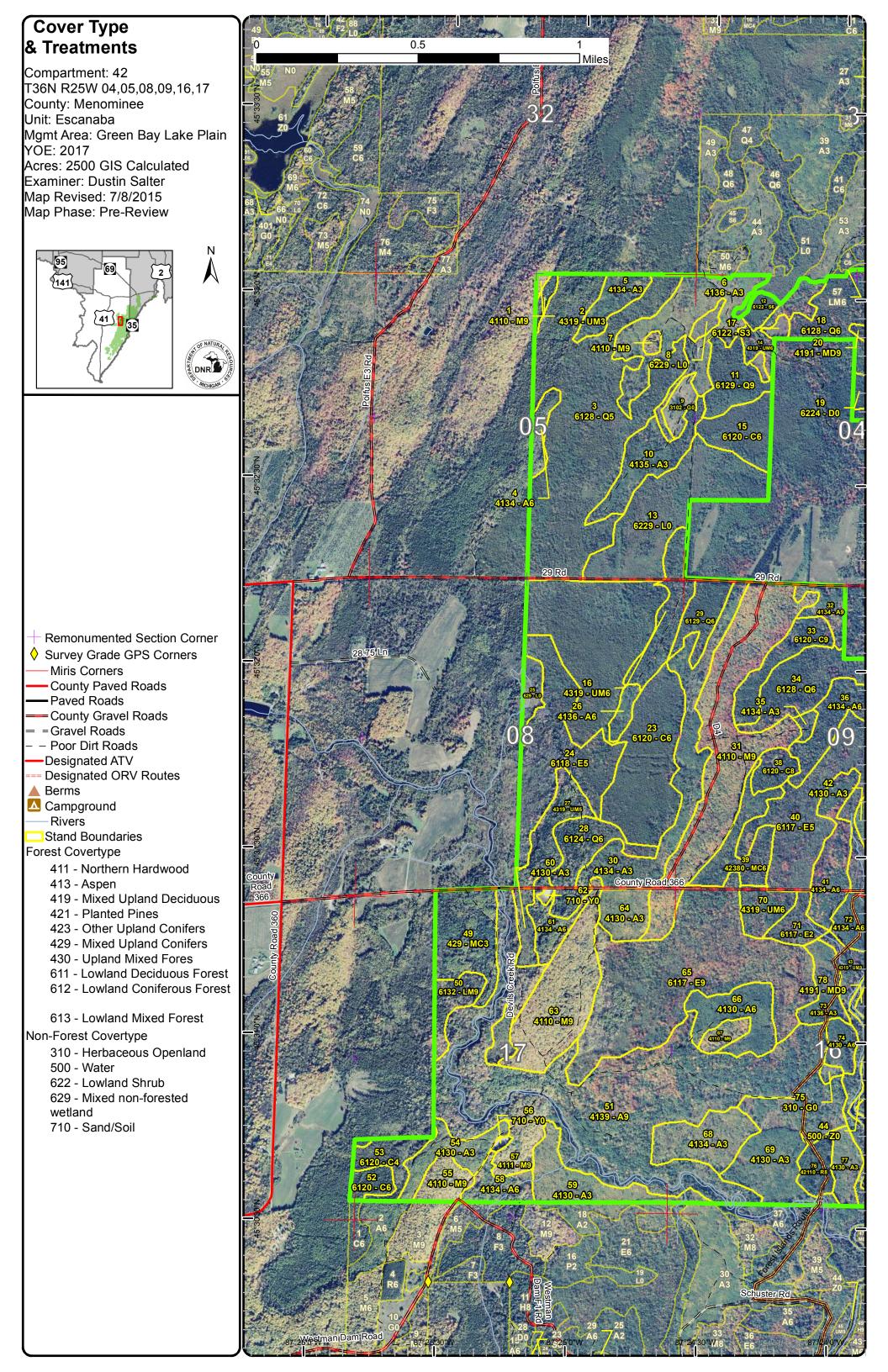
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Aspen	0	0	44	6	0	0	309	0	0	0	0	0	0	0	0	0	0	0	359	ſ
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	19	9	0	0	0	28	
Lowland Conifers	0	0	0	10	0	0	0	0	0	0	62	215	0	0	0	0	0	0	287	
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	40	
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	116	0	0	0	0	0	0	0	116	
Upland Mixed Forest	0	0	0	0	0	44	0	0	0	0	0	46	0	0	0	0	0	0	90	
Total	0	0	44	16	0	44	309	0	40	0	178	261	0	19	9	0	0	0	920	

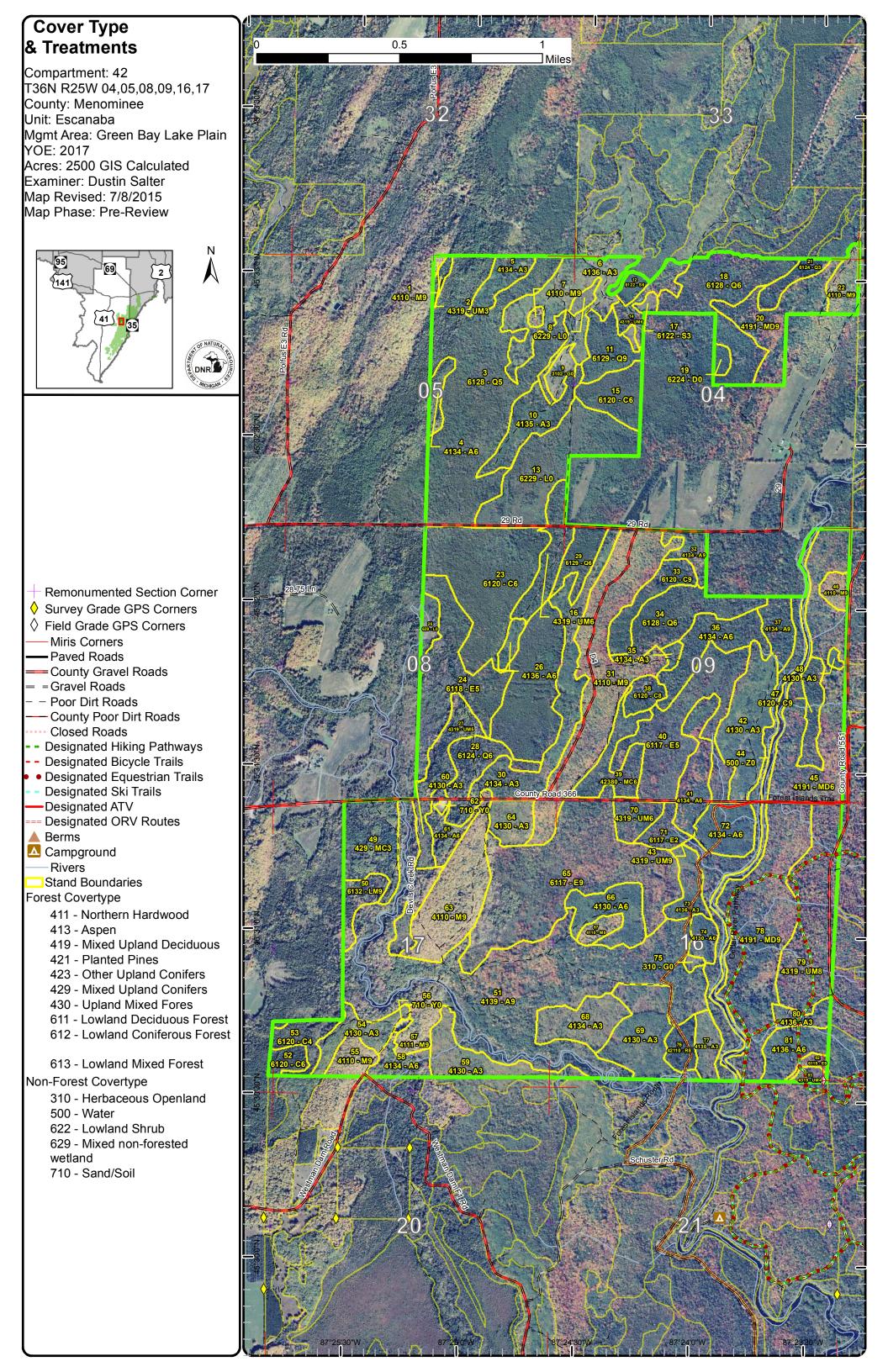


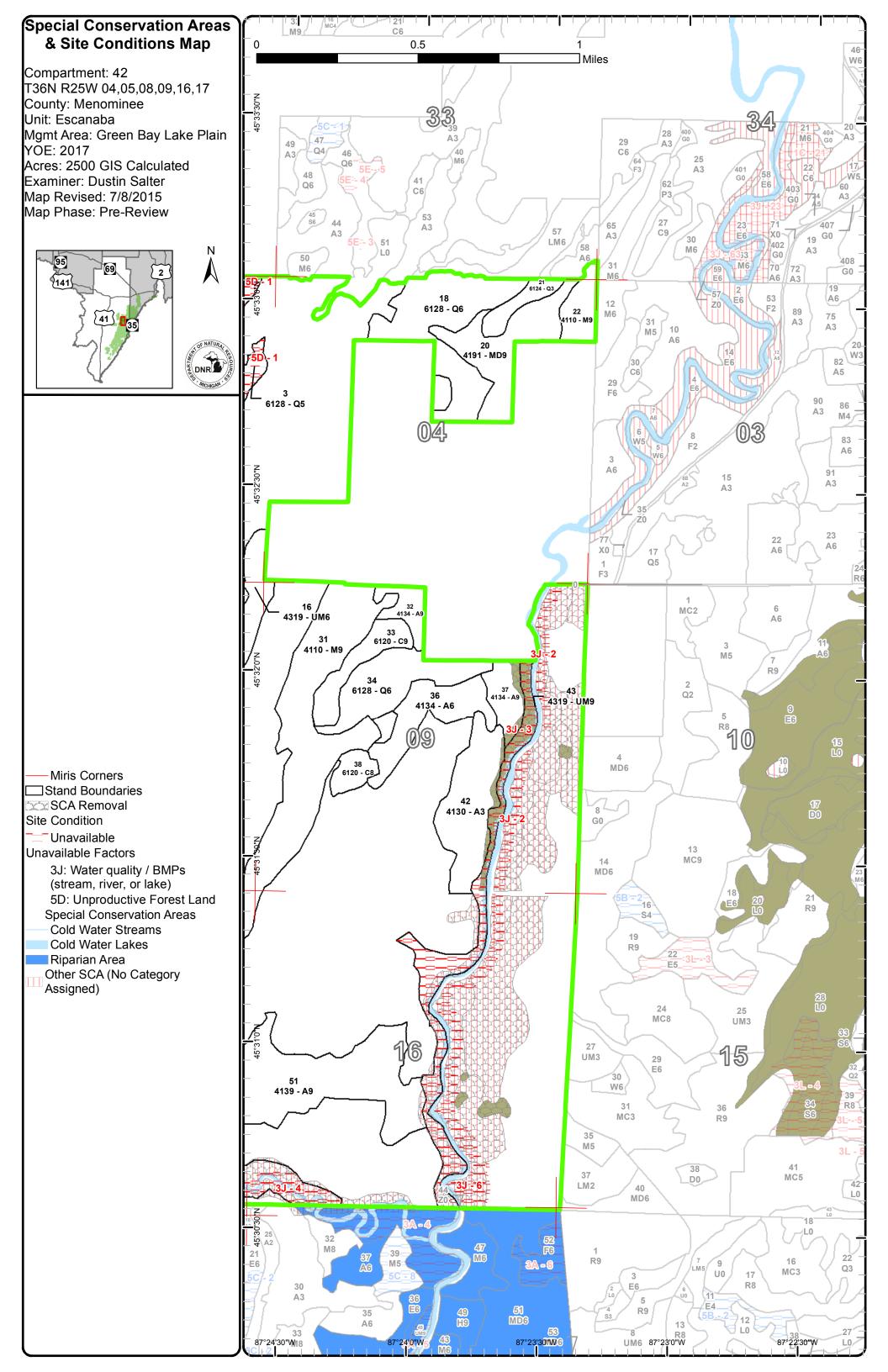


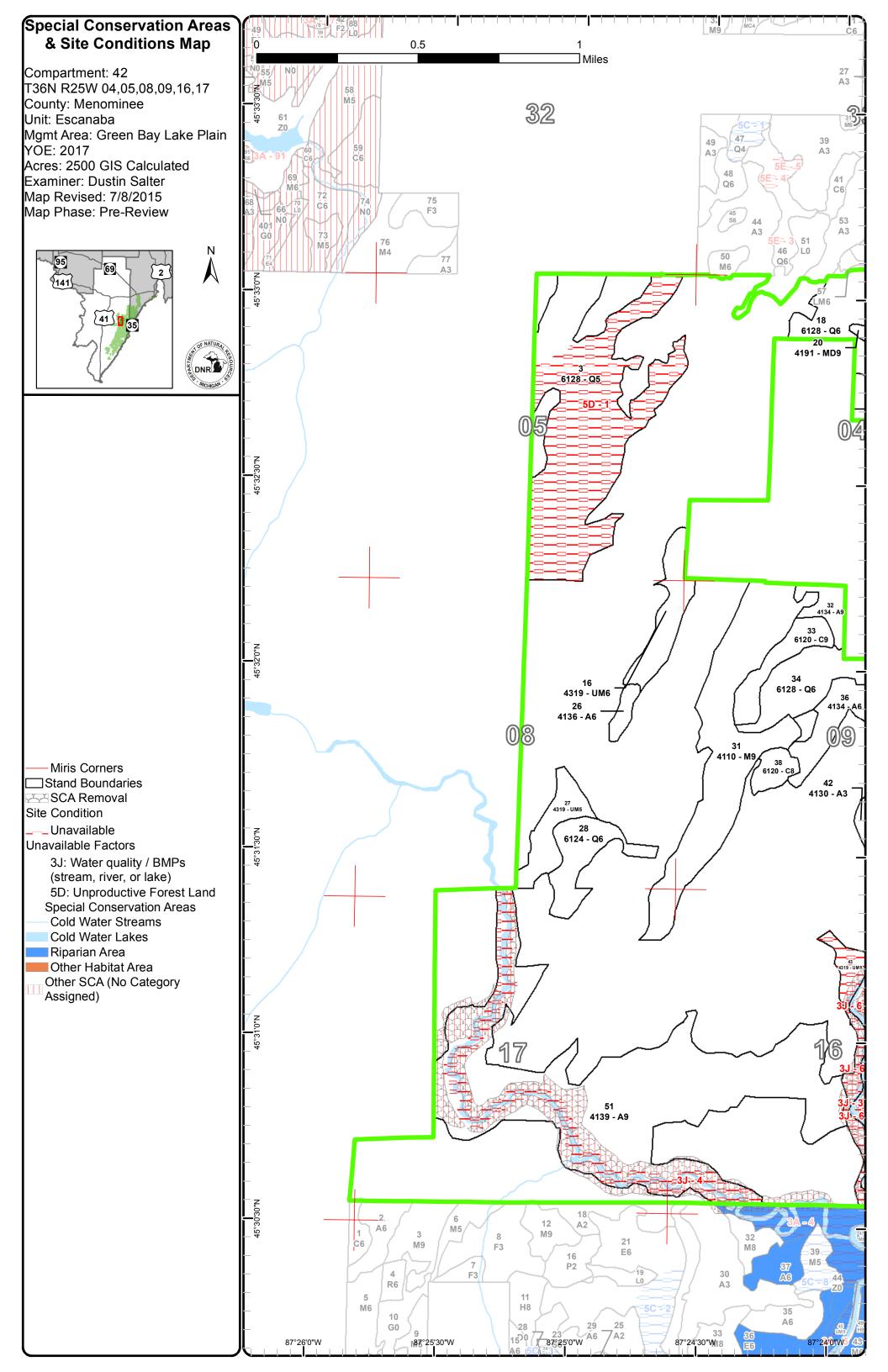


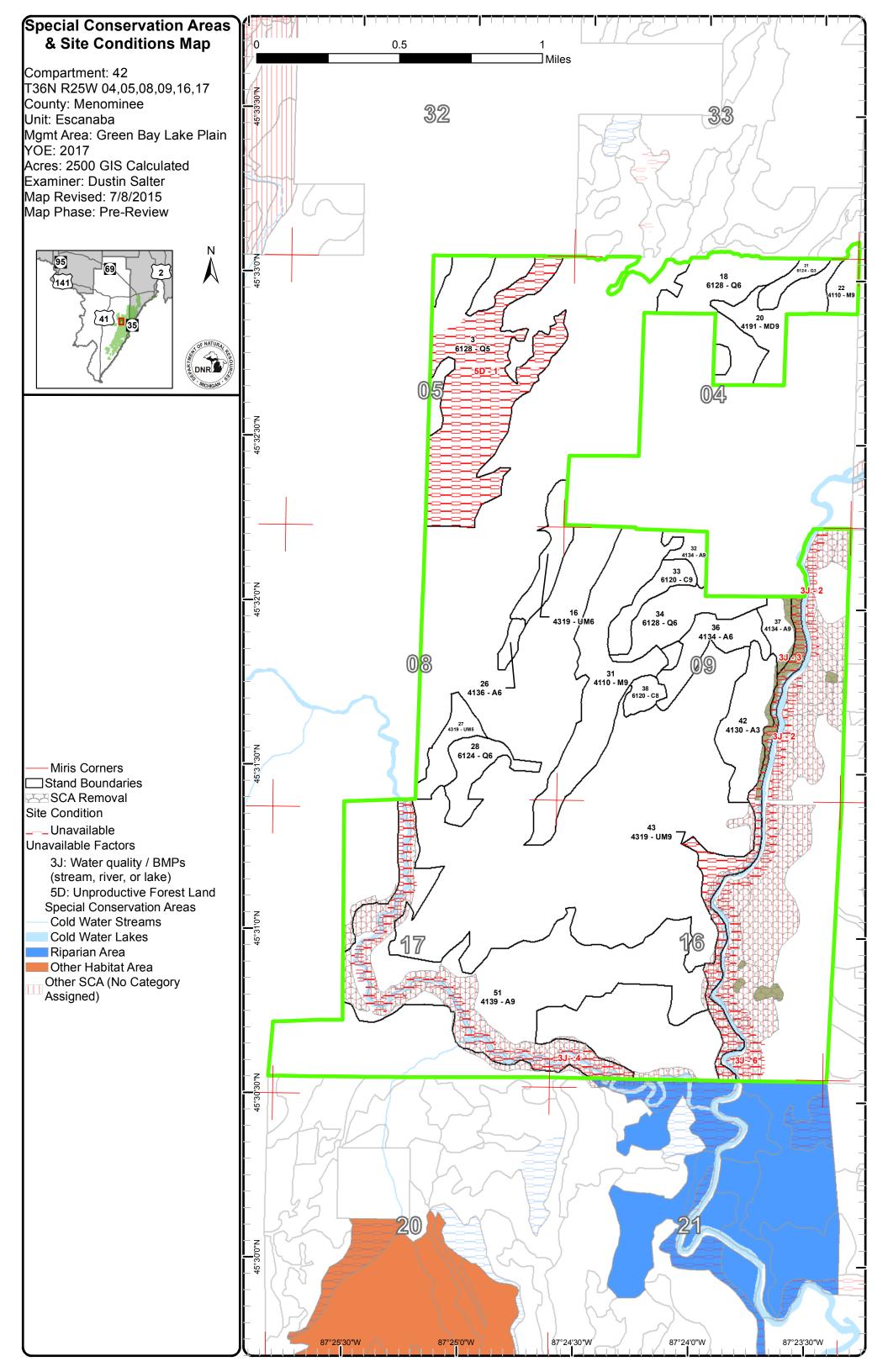














# **Report 2 – Treatment Summary**

Escanaba Mgt. Unit Year of Entry: 2017

#### **Acres of Harvest**

Compartment 42
Total Compartment Acres: 2,500

Commercial Harvest - 0 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 18

# **Proposed and Next Step Treatments by Harvest Method**

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0	0	0	0	0	0	0	0	0		1
0	0	0	0	0	0	0	0	0		1
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0	0	0	0	0	0	0	0	0		1
0	0	0	0	0	0	0	0	0		

Compartment: 42 Year of Entry: 2017

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**Treatment** Size Stand BA **Treatment Treatment Cover Type** Acres Stand Age **Approval** Name CoverType Density Age Range Type Method Objective Structure **Status** d 33042003-Cut 6128 - Lowland 102 Unspec 612 - Lowland Proposal 3 21.5 Poletimber Harvest Clearcut with Even-Aged Coniferous, Mixed Medium ified Retention Coniferous Deciduous Forest

**Habitat Cut: No Site Condition:** 

Prescription Cut all trees greater than 3" inches. The retention will be the portion of the stand not designated for cutting

Specs:

Next Step Treatments:

Acceptable Tamarack, spruce, ash, balm, and cedar.

Regen:

Other Overall very poor quality stand. The cedar is short and with low diameters. There are some pockets of good quality tamarack, but most of them Comment: have died recently due to the Eastern Larch Beetle. The area that is prescribed for harvest has some mortality already. Look at the other

tamarack pockets when this sale is set up to see if any of the others have enough merchantable wood left. Old next step comments:

10/1 /2016 **Proposed Start Date:** 

33042016-Cut 23.8 4319 - Mixed Poletimber 40 51-80 Harvest Clearcut 4134 - Aspen, Even-Aged Proposal

**Upland Forest** Well Spruce/Fir

**Habitat Cut: No Site Condition:** 

Prescription Cut all trees greater than 3" inches. No retention is being left due to small stand size and presence of spruce budworm.

Specs:

Next Step **Treatments:** 

Acceptable Aspen, balsam fir, and spruce.

Regen:

Other Decent quality aspen stand with a high percentage of balsam fir. There is a high percentage of the balsam fir that is infested with the spruce Comment:

budworm, there is guite a bit that has already died. Harvest this stand now to salvage as much of the balsam fir as possible. Old next step

comments:

10/1 /2016 **Proposed Start Date:** 

33042018-Cut 53.6 6128 - Lowland 103 Unspec 6128 - Lowland Poletimber Harvest Clearcut with Even-Aged Proposal

Coniferous, Mixed Coniferous, Well ified Retention Deciduous Mixed

Deciduous

**Habitat Cut: No Site Condition:** 

Prescription Cut all trees greater than 3" inches; except mark to leave some spruce and cedar seed trees/clumps in the areas of the stand that do not have sphagnum moss. In addition, leave the dense patch of hemlock in the western part of the stand, the dense patch of cedar in the northeastern Specs:

part of the stand, and the dense patch of cedar in the northwestern corner of the stand. These three areas are excluded from the treatment

already.

Next Step

Treatments:

Acceptable Spruce, tamarack, balsam fir, cedar, ash, balm, and maple.

Regen:

This stand is very variable, it is made up by 6 to 8 different covertypes. They are all too small to separate out and all of them are mature and Other should be managed the same. Overall the stand is low, but there are a number of upland knobs/ridges. The Eastern Larch Beetle and the Comment:

Spruce Budworm are present within this stand. There is some tamarack mortality already. Old next step comments:

Proposed Start Date: 10/1 /2016

Compartment: 42

Year of Entry: 2017

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
20	33042020-Cut	39.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	70	Unspec ified	Harvest	Clearcut with Retention	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal

**Habitat Cut: No Site Condition:** 

Prescription Cut all trees greater than 3" inches; except retain the beech and leave enough retention areas to have 3% retention. There is a lowland pocket in

the center of the stand that could be retained. Specs:

Next Step Treatments:

Acceptable Aspen, maple, balsam fir, ash, and spruce.

Regen:

Overall this is a good quality aspen, red maple, and balsam fir stand. There are a couple of lowland pockets within the stand. Old next step Other

Comment:

Proposed Start Date: 10/1 /2016

13.6 4110 - Sugar Maple Sawtimber 411 - Northern 33042022-Cut 90 111-Harvest Single Tree Even-Aged Proposal 140 Hardwood Association Selection

**Site Condition:** 

Prescription Thin stand down to 80 basal area, focusing on lowering the percentage of beech and ash in the stand.

Specs:

Next Step Treatments:

**Habitat Cut: No** 

Acceptable Sugar maple, basswood, white ash, and beech.

Regen:

Other Good quality hardwood stand, that was last thinned in 1989 on contract 013-87-01. A large portion of this stand is on a steep ridge. This stand

has a very dense layer of sedge throughout it. Old next step comments: Comment:

**Proposed Start Date:** 10/1 /2016

33042027-Cut 20.4 4319 - Mixed Poletimber 45 51-80 Harvest Clearcut 4134 - Aspen, Even-Aged Proposal **Upland Forest** Medium Spruce/Fir

**Habitat Cut: No Site Condition:** 

Prescription Cut all trees greater than 3" inches. No retention is being left due to poor quality aspen and the presence of the spruce budworm.

Specs:

Next Step Treatments:

Acceptable Aspen, maple, balsam fir, and spruce.

Regen:

Stand is a mix of aspen and balsam fir. The aspen is poor quality and the balsam fir is infested with the Spruce Budworm. This stand needs to Other

Comment: be harvested now to maximize aspen sprouting and to salvage as much balsam fir as possible. Old next step comments:

10/1 /2016 **Proposed Start Date:** 

33042028-Cut 25.3 6124 - Lowland Poletimber Unspec Harvest Clearcut with 6122 - Black Even-Aged Proposal ified Spruce-Fir Well Retention Spruce

**Habitat Cut: No Site Condition:** 

Prescription Cut all trees greater than 3" inches; except mark some seed trees/clumps to retain. Retain some large white pine as part of the retention. A

minimum of 3% retention will be left. Specs:

Next Step

**Treatments:** 

Acceptable Spruce, tamarack, aspen, balsam fir, white pine, and red maple.

Regen:

Other Black spruce stand with upland ridges of aspen, balsam fir, and red maple. Overall the majority of the stand is lowland. Old next step

Comment: comments:

Proposed Start Date: 10/1 /2016

Compartment: 42 Year of Entry: 2017



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	/
32	33042032-Cut	10.7	4134 - Aspen, Spruce/Fir	Sawtimber Well	57	81-110	Harvest	Clearcut	4134 - Aspen, Spruce/Fir	Even-Aged	Proposal	

**Habitat Cut: No Site Condition:** 

Prescription Cut all trees greater than 3" inches. No retention is being left due to small stand size.

Specs:

Next Step **Treatments:** 

Acceptable Aspen, maple, and balsam fir.

Regen: Other

Mature aspen and balsam fir stand. There are a couple of steep knolls on the north end of the stand. Old next step comments:

Comment:

**Proposed Start Date:** 10/1 /2016

36 33042036-Cut 29.8 4134 - Aspen. Poletimber 55 111-Harvest Clearcut with 4134 - Aspen. Proposal Even-Aged Spruce/Fir Well 140 Retention Spruce/Fir

**Habitat Cut: No Site Condition:** 

Prescription Cut all trees greater than 3" inches; except leave some dense clumps/patches of cedar where available. If more retention is needed leave a

patch of aspen/balsam fir. Specs:

Next Step **Treatments:** 

Acceptable Aspen, balsam fir, spruce, balm, maple, and ash.

Regen:

This stand is a mature aspen and balsam fir stand with some lowland hardwood pockets mixed in. The balsam fir is infested with the spruce Other

budworm. Old next step comments: Comment:

10/1 /2016 **Proposed Start Date:** 

33042037-Cut 14 1 4134 - Aspen, Sawtimber 55 81-110 Harvest Clearcut 4134 - Aspen, Even-Aged Proposal Spruce/Fir Well Spruce/Fir

**Habitat Cut: No Site Condition:** 

Prescription Cut all trees greater than 3" inches. No retention will be left due to small stand size and the presence of the spruce budworm. Specs:

Next Step **Treatments:** 

Acceptable Aspen, balsam fir, and maple.

Regen:

Comment:

Other Mature good quality aspen stand with a significant amount of balsam fir. Most of the balsam fir is older than the aspen and there is quite a bit

that has already died. Also the spruce budworm is feeding on it. Most of the stand is high ground, with some low pockets. Old next step

comments:

**Proposed Start Date:** 10/1 /2016

51 33042051-14-26.5 4139 - Aspen, Sawtimber 53 81-110 Harvest Clearcut with 4139 - Aspen, Even-Aged Incomplete Mixed Deciduous Well Retention Mixed Proposal New Deciduous

**Habitat Cut: No Site Condition:** 

Prescription Cut all trees greater than 2" inches; the retention will be the buffer left along Devil's Creek. For the area being converted to red pine; herbicide, trench, and plant per TMS recommendations. The conversion to red pine is dependent on the Interim 4(d) rule for the Northern Long-Eared Bat, Specs:

check at appropriate time to determine if conversion can occur. If conversion can not occur, manage the entire treatment area for aspen.

Next Step

**Treatments:** 

Acceptable In the areas being managed for aspen, aspen, maple, balsam fir, and spruce. In the areas being converted red pine, red pine will be the

Regen:

Other This stand is primarily a mature aspen stand with some dense pockets of red maple mixed in. Most of the aspen is good quality, but along the Comment:

southern third of the stand the soils are sandy and are not productive aspen soils. These areas will be converted to red pine following harvest. A

100' buffer along Devil's Creek will be left. Old next step comments:

**Proposed Start Date:** 10/1 /2016

Escanaba Mgt. Unit Report 4 -- Treatments Compartment: 42 s Year of Entry: 2017 t а **Treatment** Acres Stand Size Stand BA **Treatment Treatment Cover Type** Age **Approval** n Method Objective Name CoverType Density Age Range Type Structure **Status** d 51 33042051-Cut 105.0 4139 - Aspen, Sawtimber 53 81-110 Clearcut with 4139 - Aspen, Harvest Even-Aged Proposal Mixed Deciduous Well Retention Mixed Deciduous **Habitat Cut: No Site Condition:** Prescription Cut all trees greater than 2" inches; the retention will be the buffer left along Devil's Creek. For the area being converted to red pine; herbicide, trench, and plant per TMS recommendations. The conversion to red pine is dependent on the Interim 4(d) rule for the Northern Long-Eared Bat, Specs: check at appropriate time to determine if conversion can occur. If conversion can not occur, manage the entire treatment area for aspen. Next Step Pesticide, Skidder/Mechanical; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr) Treatments:

Acceptable In the areas being managed for aspen, aspen, maple, balsam fir, and spruce. In the areas being converted red pine, red pine will be the

This stand is primarily a mature aspen stand with some dense pockets of red maple mixed in. Most of the aspen is good quality, but along the

southern third of the stand the soils are sandy and are not productive aspen soils. These areas will be converted to red pine following harvest. A

Proposed Start Date: 10/1 /2016

acceptable species.

Total Treatment
Acreage Proposed:

Regen:

Other

Comment:

384.0

100' buffer along Devil's Creek will be left. Old next step comments:

Dustin Salter : Examiner

Compartment: 42 Year of Entry: 2017

#### **Availability for Management** Total Acres Acres **Dominant Site Conditions** Not Available 5D Available 3J Acres 825 764 61 Aspen 61 Cedar 229 229 0 9 9 0 Herbaceous Openland 186 323 137 **Lowland Conifers** 137 281 281 0 **Lowland Deciduous** 12 12 0 **Lowland Mixed Forest** 78 78 0 **Lowland Shrub** 9 9 0 Lowland Spruce/Fir 232 181 51 **Mixed Upland Deciduous** 51 208 208 0 Northern Hardwood 11 11 0 **Red Pine** 2 2 0 Sand, Soil 4 4 0 Treed Bog 59 59 0 **Upland Conifers** 193 147 46 **Upland Mixed Forest** 46 25 25 0 Water 2,500 2,205 295 **Total Forested Acres** 158 137 88% 12% Relative Percent

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5D: Unproductive Forest Land	137	Unspecified	Unspecified	Unspecified	Unspecified
(	Comments:						
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: This stand is a buffe	er along the Big Cedar River.	It also is	a riparian travel corridor.			

**Dustin Salter : Examiner** 

Compartment: 42 Year of Entry: 2017

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	46	Unspecified	Unspecified	Unspecified	Unspecified
	<b>Comments:</b> This stand is a buff	er along the Big Cedar River.					
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	61	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: 100 foot buffer alon	g Devil's Creek.					
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	32	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Three chain buffer	along the Big Cedar River.					

Escanaba Mgt. Unit Compartment: 042 Year of Entry: 2017



# Report 6 - PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Unspecified	Potential Old Growth		SCA Removal	19
	TH WITHIN THE CEDAR RIVER FL DNE. Special value conservation ar	OODPLAIN AND THAT IS THE LONG	S TERM MO. MIXTURE OF	SMALLER
Unspecified Comments POTENTIAL OLD GROWT	Potential Old Growth		SCA Removal	1
Unspecified Comments POTENTIAL OLD GROWT	Potential Old Growth		SCA Removal	0
Unspecified Comments POTENTIAL OLD GROWT	Potential Old Growth		SCA Removal	1
Unspecified Comments POTENTIAL OLD GROWT	Potential Old Growth  H.		SCA Removal	3
Unspecified Comments riparian area special value	Other SCA conservation area.		SCA Removal	7
Unspecified Comments riparian area special value	Other SCA conservation area.		SCA Removal	10
Unspecified Comments riparian area special value	Other SCA conservation area.		SCA Removal	7
Unspecified Comments riparian area special conse	Other SCA ervation area.		SCA Removal	11
Unspecified Comments riparian area special value	Other SCA conservation area.		SCA Removal	8
Unspecified Comments riparian area special value	Other SCA conservation area.		SCA Removal	4

Escanaba Mgt. Unit Compartment: 042 Year of Entry: 2017



# Report 6 - PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Unspecified	Other SCA		SCA Removal	3
Comments				
THE DEVILS CREE	K ORV TRAIL CROSSES. Riparian area	special value conservation area.		
Jnspecified	Other SCA		SCA Removal	8
Comments				
iparian area special	value conservation area.			
Jnspecified	Other SCA		SCA Removal	16
Comments				
iparian area special	value conservation area.			
<b>Jnspecified</b>	Other SCA		SCA Removal	6
Comments				
iparian area special	value conservation area.			
Jnspecified	Other SCA		SCA Removal	12
Comments				
iparian area special	value conservation area.			
Jnspecified	Other SCA		SCA Removal	7
Comments				
	al value conservation area. The long term of birch and balsam in the understory and		m protection. This stands consi	sts of
<b>Jnspecified</b>	Other SCA		SCA Removal	4
Comments				
iparian area special	value conservation area.			
<b>Jnspecified</b>	Other SCA		SCA Removal	3
Comments				
iparian area special				
	value conservation area.			
<b>Jnspecified</b>	value conservation area. Other SCA		SCA Removal	8
Jnspecified Comments			SCA Removal	8
Comments			SCA Removal	8
Comments	Other SCA		SCA Removal	8
Comments special value conserv Unspecified Comments	Other SCA ration area riparian area. Other SCA		SCA Removal	
Comments pecial value conserv Unspecified Comments	Other SCA ration area riparian area.	SALE. Riparian area special value	SCA Removal	
Comments special value conserv Unspecified Comments	Other SCA ration area riparian area. Other SCA	SALE. Riparian area special value	SCA Removal	
Comments special value conserv  Jnspecified  Comments  CUT UNDER CONTR	Other SCA ration area riparian area. Other SCA RACT 024-94-01. LOST MOTORCYCLE S	SALE. Riparian area special value	SCA Removal conservation area.	2

Escanaba Mgt. Unit Compartment: 042 Year of Entry: 2017



# Report 6 - PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Unspecified Comments	Other SCA		SCA Removal	7
riparian area special v	alue conservation area.			
Unspecified	Other SCA		SCA Removal	5
Comments riparian area special v	alue conservation area.			
Unspecified	Other SCA		SCA Removal	2
Comments				
riparian area special v	alue conservation area.			
Unspecified	Other SCA		SCA Removal	8
Comments				
riparian area special v	alue conservation area.			
Unspecified	Other SCA		SCA Removal	7
Comments				
riparian area special v	alue conservation area.			
Unspecified	Other SCA		SCA Removal	3
Comments				
riparian area special o	onservaiton area.			
Unspecified	Other SCA		SCA Removal	7
Comments				
riparian area special v	alue conservation area.			
Unspecified	Other SCA		SCA Removal	7
Comments				
BUFFER ZONE ALO	NG THE CEDAR RIVER			
Unspecified	Other SCA		SCA Removal	5
Comments				
riparian area special v	alue conservation area.			
Unspecified	Other SCA		SCA Removal	19
Comments				
. SKI TRAIL RUNS TH	IROUGH THIS STAND. Recreation special value co	onservation area.		
Unspecified	Other SCA		SCA Removal	7
Comments				
riparian area special v	alue consrvation area.			

Compartment: 042
Year of Entry: 2017



# Report 6 - PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Unspecified	Other SCA		SCA Removal	5
Comments riparian area special va	lue conservation area.			
Unspecified	Other SCA		SCA Removal	13
Comments riparian area special va	lue conservation area.			
Unspecified	Other SCA		SCA Removal	53
Comments riparian area special va	lue conservation area.			
Unspecified	Other SCA		SCA Removal	15
Comments riparian area special va	lue conservation area.			

Escanaba Mgt. Unit Compartment: 42
Year of Entry 2017



# 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.

Conservation Area	on Type	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area			
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxyg stocked trout populations and those of other coldwate conditions for coldwater fishes may occur in Michigar groundwater inflows, or are located in colder (norther Director's action and designated as trout resources b	er fish species to persist from year to year. Suitable halakes if they are relatively deep, have substantial on) areas of the state. Such lakes are established by			
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.				

S t	Escanaba Mgt. Unit			Report 8 – Forested Stands		Stands Compartment: 42 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	158.4	102	Unspecified	Overall very poor quality stand. The cedar is short and with low diameters. There are some pockets of good quality tamarack, but most of them have died recently due to the Eastern Larch Beetle. The area that is prescribed for harvest has some mortality already. Look at the other tamarack pockets when this sale is set up to see if any of the others have enough merchantable wood left.
16	4319 - Mixed Upland Forest	Poletimber Well	23.8	40	51-80	Decent quality aspen stand with a high percentage of balsam fir. There is a high percentage of the balsam fir that is infested with the spruce budworm, there is quite a bit that has already died. Harvest this stand now to salvage as much of the balsam fir as possible.
18	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	57.2	103	Unspecified	This stand is very variable, it is made up by 6 to 8 different covertypes. They are all too small to separate out and all of them are mature and should be managed the same. Overall the stand is low, but there are a number of upland knobs/ridges. The Eastern Larch Beetle and the Spruce Budworm are present within this stand. There is some tamarack mortality already.
20	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	39.6	70	Unspecified	Overall this is a good quality aspen, red maple, and balsam fir stand. There are a couple of lowland pockets within the stand.
21	6124 - Lowland Spruce- Fir	Sapling Well	9.7	27	Immature	Stand was clearcut in 1988 on contract 013-87-01; except the cedar was retained. This is a fully stocked mixed conifer stand, most of which is lowland. There is quite a bit of advanced conifer regeneration from the last harvest. The spruce budworm is feeding on the spruce and balsam fir. Monitor this stand and in two years if the budworm damage has gotten worst when we set up the adjacent stands for harvest, prescribe this stand for harvest. This would be a low volume stand/sale.
22	4110 - Sugar Maple Association	Sawtimber Well	13.6	90	111-140	Good quality hardwood stand, that was last thinned in 1989 on contract 013-87-01. A large portion of this stand is on a steep ridge. This stand has a very dense layer of sedge throughout it.
26	4136 - Aspen, Mixed Conifer	Poletimber Well	5.5	21	Immature	Stand was clearcut in 1994 on contract 005-93-01. The stand did not fully regenerate with aspen, but the open areas are filling in with balsam fir and spruce. There was quite a bit of cedar retained after the last harvest, but a high percentage has blown over since.
27	4319 - Mixed Upland Forest	Poletimber Medium	20.4	45	51-80	Stand is a mix of aspen and balsam fir. The aspen is poor quality and the balsam fir is infested with the Spruce Budworm. This stand needs to be harvested now to maximize aspen sprouting and to salvage as much balsam fir as possible.
28	6124 - Lowland Spruce- Fir	Poletimber Well	25.3	93	Unspecified	Black spruce stand with upland ridges of aspen, balsam fir, and red maple. Overall the majority of the stand is lowland.
31	4110 - Sugar Maple Association	Sawtimber Well	102.5	90	81-110	Stand was last thinned in 1998 on contract 040-97-01. High quality sugar maple stand. I found 4 deer exclosure's within the stand.

S t	Escanaba Mgt. Unit			Report 8	– Forested	Stands Compartment: 42 Year of Entry: 2017
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
32	4134 - Aspen, Spruce/Fir	Sawtimber Well	10.7	57	81-110	Mature aspen and balsam fir stand. There are a couple of steep knolls on the north end of the stand.
33	6120 - Lowland Cedar	Sawtimber Well	19.4	127	141-170	High quality cedar growing in the transition zone. There were 5 strips cut out of the stand in 1969 on the south end. These strips have regenerated with aspen, birch, and balsam fir primarily. These strips are so dense they are growing very slowly. On the north end of the stand there are a couple of pockets where the cedar has blown over. With these cedar blowing over they have pushed against additional cedar and these trees now have a significant lean. The cedar are very shallowly rooted. This area should be salvaged before all value is lost.
34	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	36.6	98	81-110	This stand is a mix of black spruce on the west side and lowland hardwood on the east side. In areas they are blended together, so it was difficult to separate. All of the species within the stand are mature and in need of harvest. This stand will regenerate to black spruce where there is sphagnum moss and the other areas will be a mix of lowland hardwoods.
36	4134 - Aspen, Spruce/Fir	Poletimber Well	30.5	55	111-140	This stand is a mature aspen and balsam fir stand with some lowland hardwood pockets mixed in. The balsam fir is infested with the spruce budworm.
37	4134 - Aspen, Spruce/Fir	Sawtimber Well	14.1	55	81-110	Mature good quality aspen stand with a significant amount of balsam fir. Most of the balsam fir is older than the aspen and there is quite a bit that has already died. Also the spruce budworm is feeding on it. Most of the stand is high ground, with some low pockets.
38	6120 - Lowland Cedar	Sawtimber Medium	9.0	135	171-200	Mature high quality cedar stand growing on the transition zone. Over the last few years a 1 to 2 acre pocket in the center of the stand has blown over. These trees have also have caused small pockets of other trees on the edge of the blow down to have a significant lean. It is just a matter of time before there is more wind thrown trees. The cedar is very shallowly rooted. There is already high volume on the ground and leaning. This should be salvaged along with the clumps that are leaning already.
42	4130 - Aspen	Sapling Well	44.1	12	Immature	Stand was clearcut in 2003 on contract 036-02-01. Fully stocked aspen stand, with the open areas filling in with balsam fir.
43	4319 - Mixed Upland Forest	Sawtimber Well	46.4	102	81-110	This stand is a compilation of many different cover types, but they are each so small that it isn't practical to separate them out. This stand is a buffer to the Big Cedar River.
51	4139 - Aspen, Mixed Deciduous	Sawtimber Well	254.0	53	81-110	This stand is primarily a mature aspen stand with some dense pockets of red maple mixed in. Most of the aspen is good quality, but along the southern third of the stand the soils are sandy and are not productive aspen soils. These areas will be converted to red pine following harvest. A 100' buffer along Devil's Creek will be left.

Mgt. Unit

# Report 9 - Nonforested Stands

Compartment: Year of Entry:



Stand	Cover Type	Acres	Managed Site	General Comments:
		#Type!		