



**Baraga Forest Management Unit  
Compartment Review Presentation  
Compartment #57                      Entry Year: 2014  
Compartment Acreage: 1590    County: Houghton**

---

**Revision Date:** 7/18/2012

**Stand Examiner:** Brad Carlson, Jason Mittlestat

**Legal Description:** T53N R33W Sec 2, 3, 4, 8, 10, 24, 25, 26; T54N R33W Sec 32, 33, 34

**Identified Planning Goals ('Management Area' or 'RMU', if applicable):** Sturgeon Sloughs

**Management Goals:** Manage the area for waterfowl.

**Soil and Topography:** The compartment is level and wet except for the isolated ownership to the southeast off of the South Entry Road. The soils are comprised of Histosols and Aquents, Sturgeon silt loam, Arnheim silt loam, Pelkie loamy fine sand, Deerton sand, Zeba fine sandy loam, and Jacobsville sandy loam.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** The surrounding ownerships are small private.

**Unique, Natural Features:** The Sturgeon river and Sturgeon River Sloughs are part of this compartment along with the Sturgeon River Slough wildlife management area. A large part of this compartment is Great Lakes Marsh, an ERA.

**Archeological, Historical, and Cultural Features:** None listed.

**Special Management Designations or Considerations:** The compartment is a designated waterfowl management area and contains Great Lake Marsh.

**Watershed and Fisheries Considerations:**

**Wildlife Habitat Considerations:** Compartment 57 is found in the Sturgeon Sloughs Management Area a floodplain in northwestern Baraga and eastern Houghton Counties. The State Forest covers about 7,900 acres and is mostly contiguous. The dominant forest communities are poor conifer swamps and deciduous lowlands. The wildlife management priority for the Sturgeon Sloughs management area is waterfowl. This area contains the Sturgeon River Sloughs Wildlife Area and Great Lakes Marsh.

The following have been identified, as featured species for the Sturgeon Sloughs Management Area: American Woodcock, Black Bear, Canada Goose, Eastern Bluebird.

**Mineral Resource and Development Concerns and/or Restrictions:**

Surface sediments consist of postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 10 and 50 feet. The Precambrian Jacobsville Sandstone subcrops below the glacial drift and was previously used as a building stone. The closest gravel pit is located one mile to the west and potential appears to be good in the east end. Abandoned copper mines, containing some silver, are located eight miles to the northwest. The compartment has not been leased before. There is no economic oil and gas production in the UP.

**Vehicle Access:** Access is from US-41 and county roads. Internal access is by foot only.

**Survey Needs:** Survey work will be needed to facilitate timber harvest activities.

**Recreational Facilities and Opportunities:** There is a viewing tower and boating access site located within the compartment.

**Fire Protection:** This is not a fire prone area.

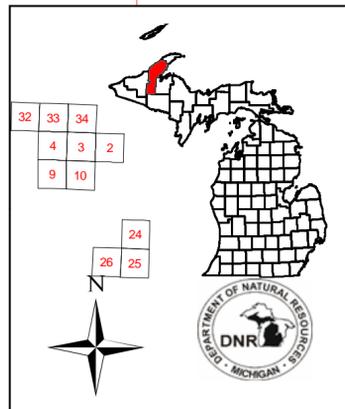
**Additional Compartment Information:**

See report “7 - Proposed Special Conservation Area SCA Details” for changes to SCA’s.

- **The following reports from the Inventory are attached:**
  - ◆ **Total Acres by Cover Type and Age Class**
  - ◆ **Proposed Treatment Summary**
  - ◆ **Proposed Treatments – No Limiting Factors**
  - ◆ **Proposed Treatments – With Limiting Factors**
  - ◆ **Stand Details (Forested and Nonforested)**
  - ◆ **Dedicated and Proposed Special Conservation Areas**
  
- **The following information is displayed, where pertinent, on the attached compartment maps:**
  - ◆ **Base feature information, stand boundaries, cover types, and numbers**
  - ◆ **Proposed treatments**
  - ◆ **Details on the road access system**

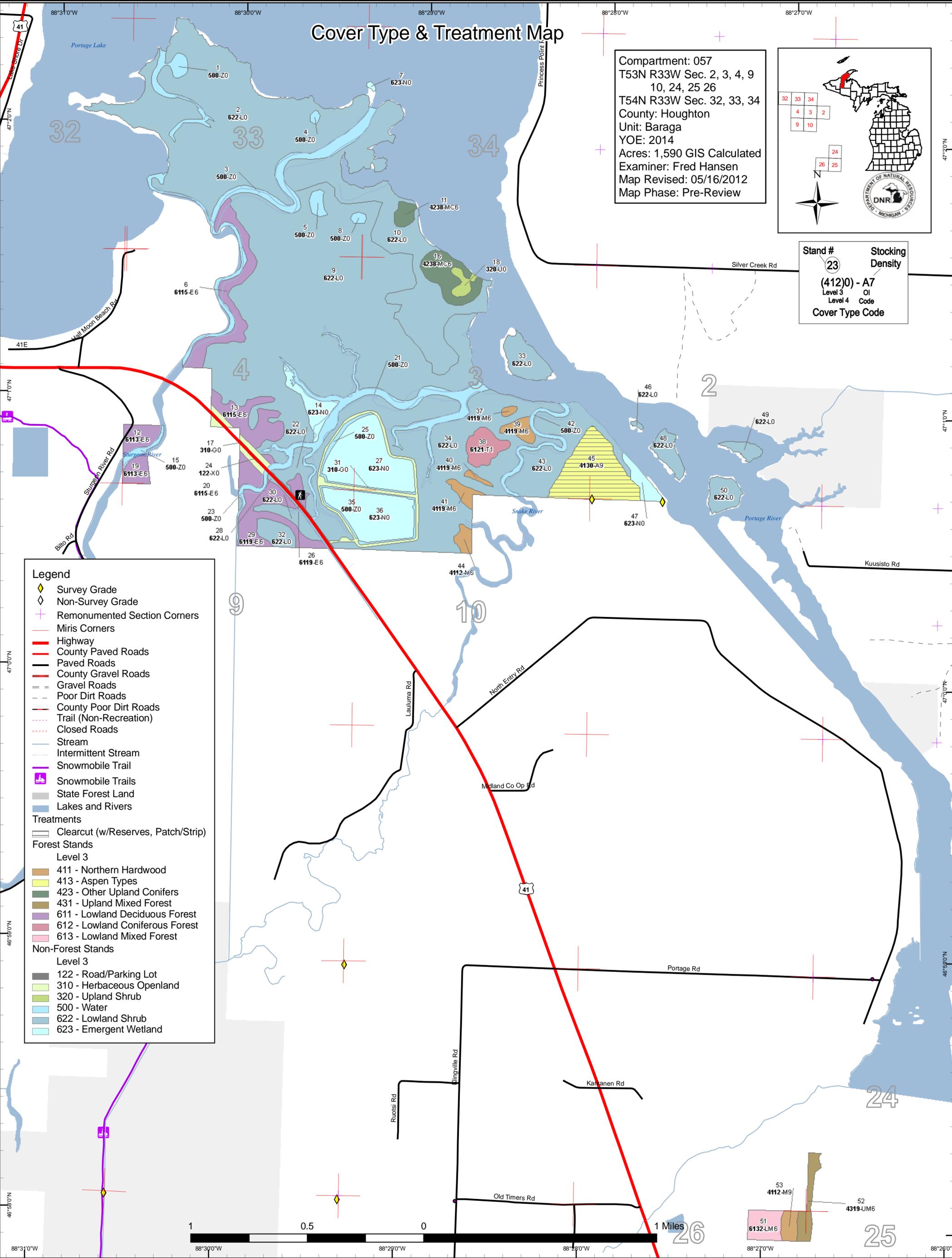
# Cover Type & Treatment Map

Compartment: 057  
 T53N R33W Sec. 2, 3, 4, 9  
 10, 24, 25 26  
 T54N R33W Sec. 32, 33, 34  
 County: Houghton  
 Unit: Baraga  
 YOE: 2014  
 Acres: 1,590 GIS Calculated  
 Examiner: Fred Hansen  
 Map Revised: 05/16/2012  
 Map Phase: Pre-Review



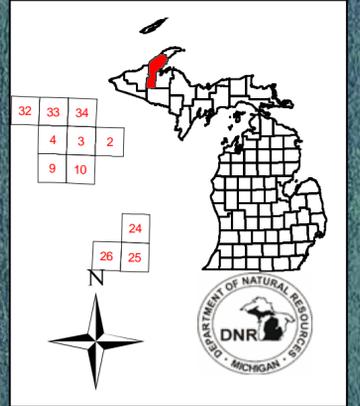
Stand #  
 23  
 Stacking Density  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code

- Legend**
- ◆ Survey Grade
  - ◇ Non-Survey Grade
  - ✚ 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)
  - Closed Roads
  - Stream
  - Intermittent Stream
  - Snowmobile Trail
  - Snowmobile Trails
  - State Forest Land
  - Lakes and Rivers
- Treatments**
- Clearcut (w/Reserves, Patch/Strip)
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 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
- 122 - Road/Parking Lot
  - 310 - Herbaceous Openland
  - 320 - Upland Shrub
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland



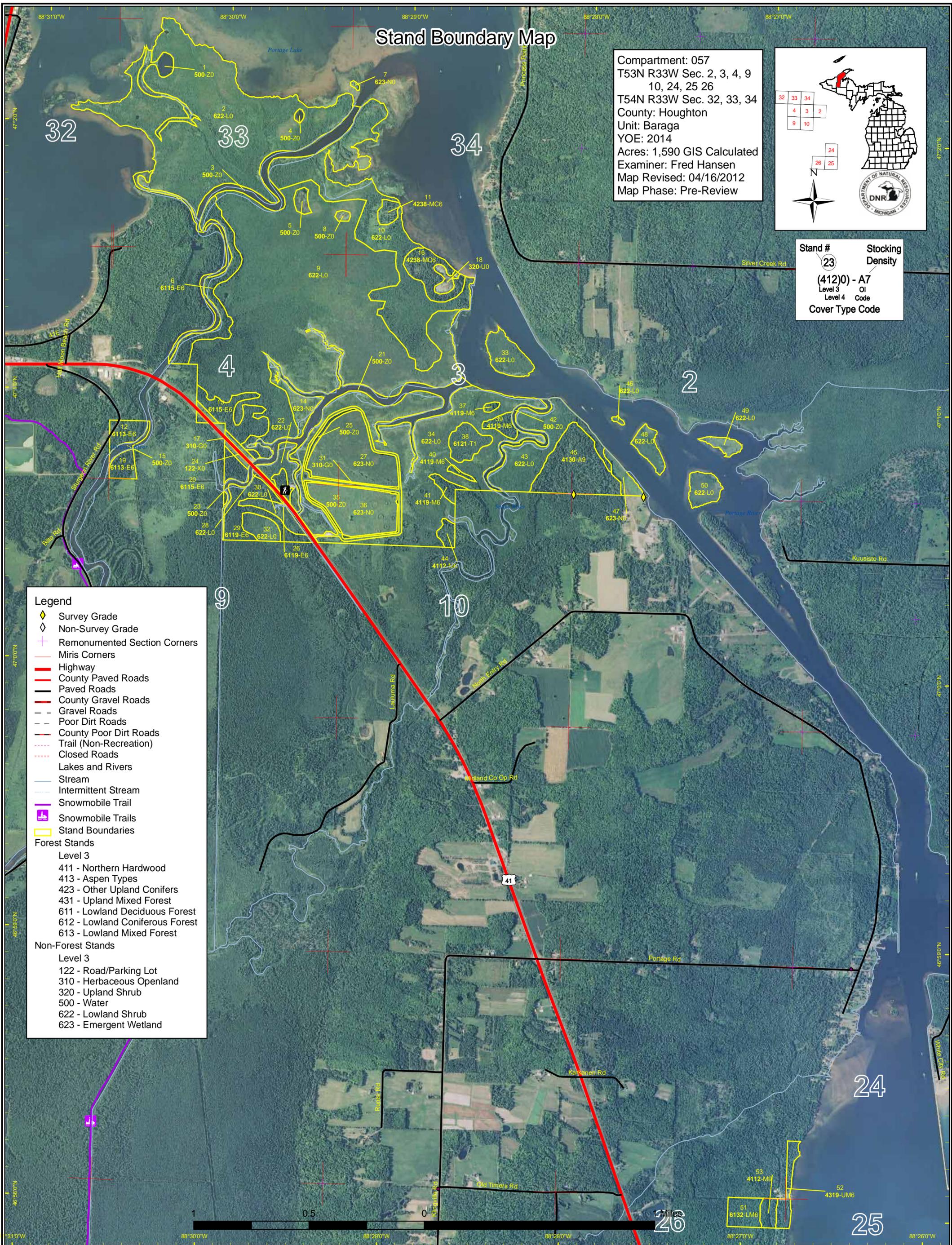
# Stand Boundary Map

Compartment: 057  
 T53N R33W Sec. 2, 3, 4, 9  
 10, 24, 25 26  
 County: Houghton  
 Unit: Baraga  
 YOE: 2014  
 Acres: 1,590 GIS Calculated  
 Examiner: Fred Hansen  
 Map Revised: 04/16/2012  
 Map Phase: Pre-Review



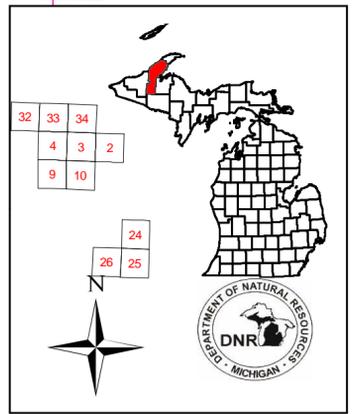
Stand # **23**  
 Stocking Density  
**(412)0 - A7**  
 Level 3 OI  
 Level 4 Code  
 Cover Type Code

- Legend**
- ◆ Survey Grade
  - ◇ Non-Survey Grade
  - ⊕ 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)
  - Closed Roads
  - Lakes and Rivers
  - Stream
  - Intermittent Stream
  - Snowmobile Trail
  - Snowmobile Trails
  - Stand Boundaries
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
  - 413 - Aspen Types
  - 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
- 122 - Road/Parking Lot
  - 310 - Herbaceous Openland
  - 320 - Upland Shrub
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland

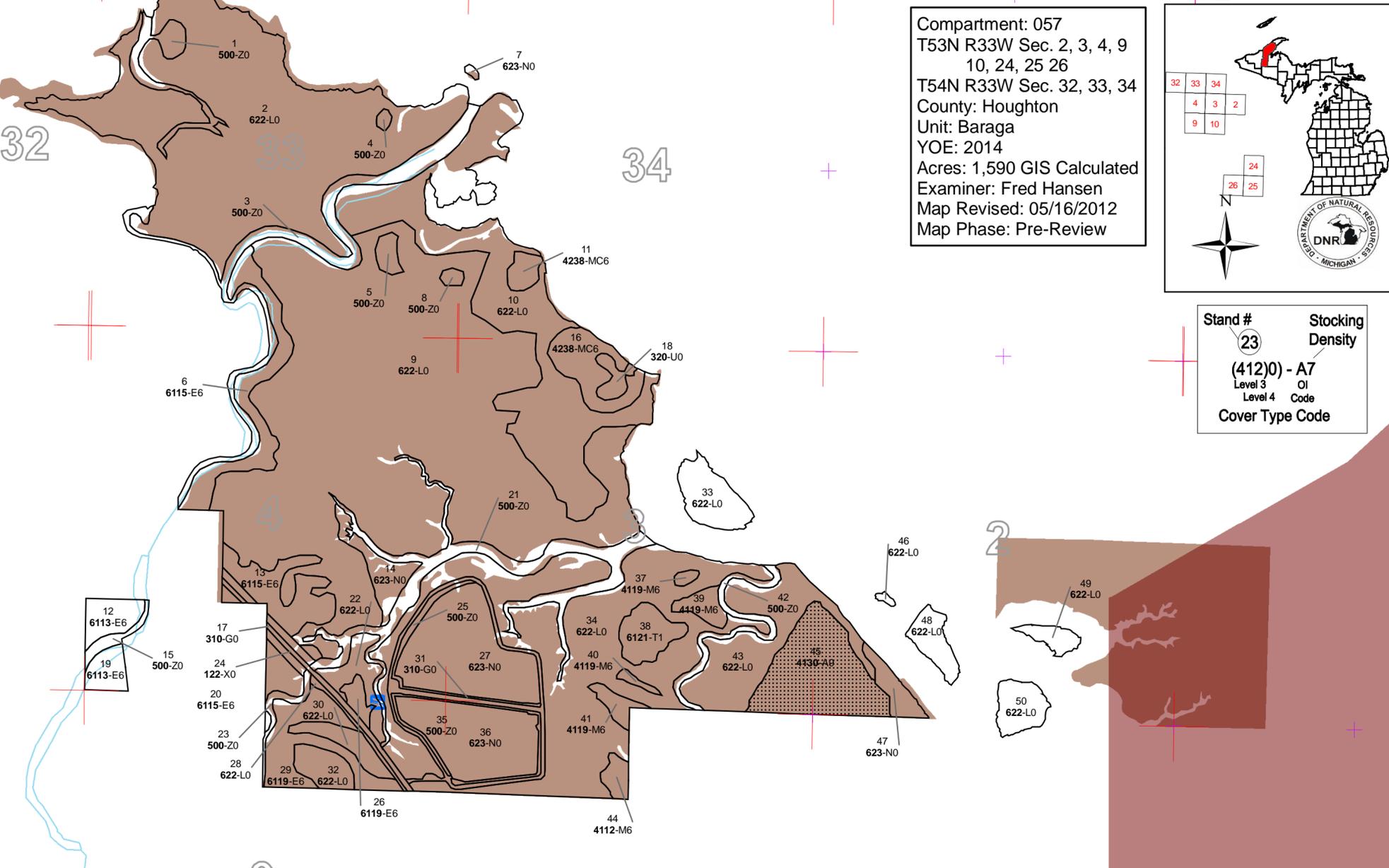


# Dedicated & Proposed Special Conservation Area Map

Compartment: 057  
 T53N R33W Sec. 2, 3, 4, 9  
 10, 24, 25 26  
 County: Houghton  
 Unit: Baraga  
 YOE: 2014  
 Acres: 1,590 GIS Calculated  
 Examiner: Fred Hansen  
 Map Revised: 05/16/2012  
 Map Phase: Pre-Review

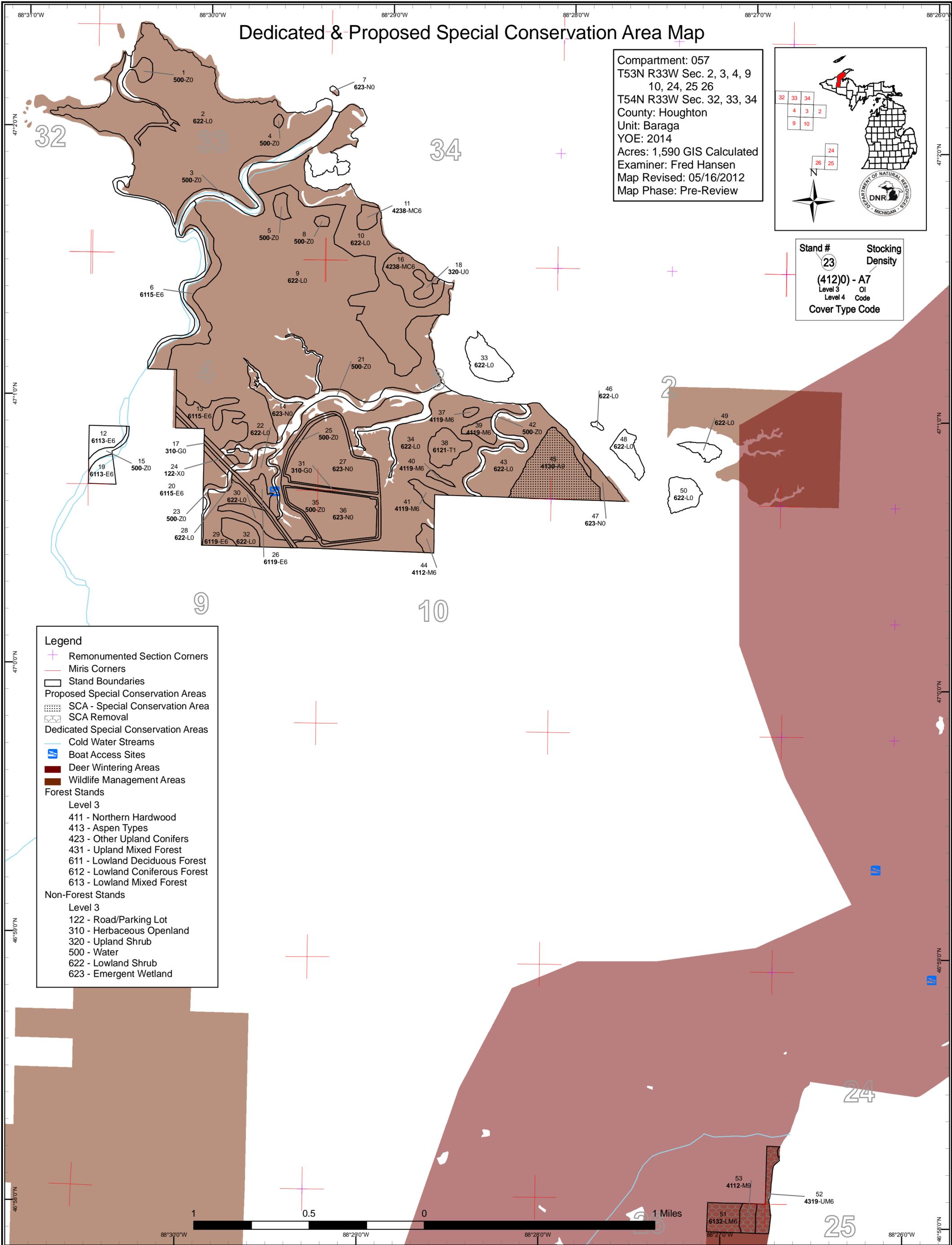
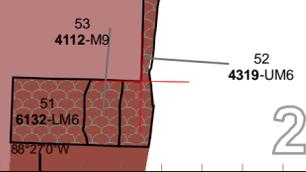


**Stand #**  
 23  
**Stocking Density**  
 (412)0 - A7  
 Level 3 OI  
 Level 4 Code  
**Cover Type Code**



**Legend**

- ✚ Remonumented Section Corners
- ✚ Miris Corners
- ▭ Stand Boundaries
- Proposed Special Conservation Areas
  - ▨ SCA - Special Conservation Area
  - ▩ SCA Removal
- Dedicated Special Conservation Areas
- Cold Water Streams
- ☒ Boat Access Sites
- Deer Wintering Areas
- Wildlife Management Areas
- Forest Stands
  - Level 3
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 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
  - 122 - Road/Parking Lot
  - 310 - Herbaceous Openland
  - 320 - Upland Shrub
  - 500 - Water
  - 622 - Lowland Shrub
  - 623 - Emergent Wetland



**Table 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 +		Uneren Age
Aspen	0	0	0	0	0	0	0	0	45	0	0	0	0	0	45
Herbaceous Openland	21	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Deciduous	0	0	0	0	30	21	26	0	0	0	0	0	0	27	103
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
Lowland Shrub	1093	0	0	0	0	0	0	0	0	0	0	0	0	0	1093
Marsh	111	0	0	0	0	0	0	0	0	0	0	0	0	0	111
Northern Hardwood	0	0	0	0	0	8	0	0	0	0	0	0	0	16	24
Tamarack	0	0	0	13	0	0	0	0	0	0	0	0	0	0	13
Upland Conifers	0	0	0	0	0	0	24	0	0	0	0	0	0	0	24
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10
Upland Shrub	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	124	0	0	0	0	0	0	0	0	0	0	0	0	0	124
<b>Total</b>	<b>1359</b>	<b>0</b>	<b>0</b>	<b>13</b>	<b>30</b>	<b>29</b>	<b>50</b>	<b>0</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>65</b>	<b>1590</b>



## Table 2 – Proposed Treatment Summaries

**Baraga Mgt. Unit**  
**Year of Entry 2014**

**Compartment 057**  
**Total Compartment Acres: 1590**

### Acres by Treatment Type

Commercial Harvest - 45	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen</b>	45	0	0	0	0	0	0	45
<b>Total</b>	45	0	0	0	0	0	0	45

S  
t  
a  
n  
d

	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
45	11057045-Cut	45.3	4130 - Aspen	High Density Log	86		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Cut all species except White Pine and all Conifers under 8 inches DBH. Retention for this stand will be greater than 3% and will consist of  
Specs: reserve tree species.

Other  
Comments:

Next Check for adequate regeneration within 5 years of harvest completion.  
Steps:

Proposed  
Start Date: 10/01/2013

---

**Total Treatment  
 Acreage Proposed: 45.3**

**Table 4 -- Treatments Prescribed with  
a Limiting Factor**



S  
t  
a  
n  
d

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

#Error

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: #Error

Limiting Factor and No  
Treatment Reason

**Total Treatment  
Acreage Proposed: 0**

**Out of YOE -- Treatments  
Prescribed with No Limiting Factor**

Year of Entry: 2014



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

Prescription  
Specs:

Other  
Comments:

Next  
Steps:

Proposed  
Start Date: #Error

---

**Total Treatment  
Acreage Proposed:           0**



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6	6115 - Lowland Ash	High Density Pole	27.1	Uneven Age	81-110	Stand is included in an ERA, Great Lakes Marsh. Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
11	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	5.0	60		Stand is included in an ERA, Great Lakes Marsh. Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
12	6113 - Lowland Maple	High Density Pole	9.8	57		Stand is part of the Sturgeon River Corridor. Chassell township park has a parking lot and picnic table on state land.
13	6115 - Lowland Ash	High Density Pole	23.1	45	1-50	Stand is included in an ERA, Great Lakes Marsh. Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
16	42380 - Non Pine Upland Conifer, Mixed Deciduous	High Density Pole	19.3	60		Stand is included in an ERA, Great Lakes Marsh. Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
19	6113 - Lowland Maple	High Density Pole	7.5	54		Stand is a corridor to the Sturgeon River and has a railroad grade bordering the east edge.
20	6115 - Lowland Ash	High Density Pole	6.6	45	1-50	Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
26	6119 - Mixed Lowland Deciduous Forest	High Density Pole	3.8	58	1-50	Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
29	6119 - Mixed Lowland Deciduous Forest	High Density Pole	25.6	66	1-50	Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
37	4119 - Mixed Northern Hardwoods	High Density Pole	1.4	52	51-80	Stand is included in an ERA, Great Lakes Marsh. Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
38	6121 - Tamarack	Low Density Sapling	12.7	31		Stand is included in an ERA, Great Lakes Marsh. Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
39	4119 - Mixed Northern Hardwoods	High Density Pole	6.0	Uneven Age		Stand is included in an ERA, Great Lakes Marsh. Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
40	4119 - Mixed Northern Hardwoods	High Density Pole	1.6	52		Stand is included in an ERA, Great Lakes Marsh. Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
41	4119 - Mixed Northern Hardwoods	High Density Pole	4.6	52		Stand is included in an ERA, Great Lakes Marsh. Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.

S  
t  
a  
n  
d

Baraga Mgt. Unit

## 5 – Forested Stands

Compartment: 057  
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>44</b>	4112 - Maple, Beech, Cherry Association	High Density Pole	4.5	Uneven Age	81-110	Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
<b>45</b>	4130 - Aspen	High Density Log	45.3	86		Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.  Stand has good access accross private. Aspen is overmature and ready for harvest, retain White Pine and possibly all Conifer under 8 inches DBH if WLD desires.
<b>51</b>	6132 - Mixed Lowland Forest with Cedar	High Density Pole	11.5	Uneven Age		Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
<b>52</b>	4319 - Mixed Upland Forest	High Density Pole	9.9	Uneven Age		Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.
<b>53</b>	4112 - Maple, Beech, Cherry Association	High Density Log	5.5	Uneven Age	111-140	Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	50 - Water	11.9	No	Unspecified	
2	6220 - Alder/willow	245.1	No	Unspecified	
3	50 - Water	36.8	No	Unspecified	Sturgeon River.
4	50 - Water	1.1	No	Unspecified	
5	50 - Water	3.9	No	Unspecified	
7	6239 - Mixed Emergent Wetland	0.6	No	Unspecified	
8	50 - Water	1.6	No	Unspecified	
9	6220 - Alder/willow	425.9	No	Unspecified	
10	6220 - Alder/willow	129.6	No	Unspecified	
14	6239 - Mixed Emergent Wetland	11.9	No	Unspecified	
15	50 - Water	3.5	No	Unspecified	The Sturgeon River.
17	3102 - Grass	6.6	No	Unspecified	Cleared R.O.W. for US41.
18	3205 - Mixed Upland Shrub	4.6	No	Unspecified	
21	50 - Water	42.2	No	Unspecified	
22	6220 - Alder/willow	11.5	No	Unspecified	
23	50 - Water	3.7	No	Unspecified	
24	122 - Road/Parking Lot	5.7	No	Unspecified	
25	50 - Water	4.7	No	Unspecified	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
27	6239 - Mixed Emergent Wetland	51.1	No	Unspecified	
28	6220 - Alder/willow	3.0	No	Unspecified	
30	6220 - Alder/willow	8.9	No	Unspecified	
31	3102 - Grass	14.9	Yes	Low (NonForested)	
32	6220 - Alder/willow	9.4	No	Unspecified	
33	6220 - Alder/willow	16.4	No	Unspecified	
34	6220 - Alder/willow	169.8	No	Unspecified	
35	50 - Water	5.1	No	Unspecified	
36	6239 - Mixed Emergent Wetland	39.7	No	Unspecified	
42	50 - Water	9.7	No	Unspecified	Snake River.
43	6220 - Alder/willow	46.4	No	Unspecified	
46	6220 - Alder/willow	0.7	No	Unspecified	
47	6233 - Wet Meadow	7.6	No	Unspecified	Stand was the site of a trespass. All the woody vegetation was removed around 2010.
48	6220 - Alder/willow	9.5	No	Unspecified	
49	6220 - Alder/willow	5.3	No	Unspecified	
50	6220 - Alder/willow	10.9	No	Unspecified	



## 7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments
45	Unique Site - SCA	11057045	45.3	Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area.  Prescribe stand to be clearcut reserving White Pine, Hemlock and all conifer under 8 inches DBH if WLD desires.
51	SCA Removal	11057051	11.5	Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area but is a small isolated parcel approximately 3 miles south of the main area.
52	SCA Removal	11057052	9.9	Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area but is a small isolated parcel approximately 3 miles south of the main area.
53	SCA Removal	11057053	5.5	Stand is included in a SCA, Sturgeon River Sloughs State Wildlife Area but is a small isolated parcel approximately 3 miles south of the main area.



## 8 – 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	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	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.
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.