

# **Compartment Review Presentation**

Escanaba Forest Management Unit

Compartment 33027 Entry Year 2017 Acreage: 382 County Menominee Management Area: Menominee End Moraine

Revision Date: 2015-07-10

Stand Examiner: Dustin Salter

# Legal Description:

T35N R29W Sections 34, 35, and 36

# **Identified Planning Goals:**

This compartment is primarily upland with a few lowland stands mixed in. The upland area are primarily aspen, pin oak, and some red maple. These areas are very well drained. There are 6 upland sites that will be clearcut, managing for a mix of aspen, oak, and maple. There will be three lowland conifer stands harvested along with a lowland hardwood stand as well. There are pockets of tamarack mortality within the compartment due to the Eastern Larch Beetle. The three lowland conifer stands prescribed for treatment all have pockets of tamarack mortality. In the recent past we have treated a number of oak wilt pockets within the compartment, if any new ones are identified they will be treated. This could include: trenching, dozing, and clearcutting.

# Soil and topography:

Some of the soil map units within this compartment are: Pemene-Rubicon Complex, Deford Mucky Fine Sand, and Grayling Sand. On the upland sites there is fine sand, which is well to excessively drained and nearly level with some gently rolling slopes. In the lower areas there is black muck over fine sand. These areas are poorly drained and level.

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

This compartment is on the south end of a block of state land that is approximately 7 miles wide and 20 miles long. There are quite a few private in holdings, in and around this compartment. The west edge of the compartment borders the Menominee River, near this area there are some permanent residences, summer homes, and camps.

# **Unique Natural Features:**

The Menominee River flows along the western edge of the stand.

# Archeological, Historical, and Cultural Features:

None Known

# **Special Management Designations or Considerations:**

None within the compartment, but compartment 109 to the north and west of this compartment is a recognized Natural Area. This area is an Oak-Pine Barrens.

# Watershed and Fisheries Considerations:

The Menominee flows along the western edge of the compartment.

# Wildlife Habitat Considerations:

Currently, this compartment is mainly aspen, hardwood, and mixed lowland forest. Much of the pin oak is mature and subject to death by oak wilt infestations. Two mature stands of mixed lowland conifer will be harvested this decade. In addition, some aspen and mixed upland deciduous stands will be clear cut. Scattered oak and pine trees will be retained within mixed upland deciduous stands to benefit wildlife and provide a future seed source. Management activities this decade will encourage white pine and oak regeneration in mixed oak-hardwood stands that have a pine component present. Mechanical scarification may be considered if we are unable to get adequate regeneration following harvests. Wildlife staff encourages the protection of healthy mature oaks wherever they are found and enhancement of acorn production by thinning around the tops of mast-producing trees.

# Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured till, glacial outwash sand and gravel and postglacial alluvium, and lacustrine sand and gravel. The glacial drift thickness varies between 10 and 50 feet. Beneath the glacial drift is the Cambrian Munising Formation. The Munising may have been used as a building stone in the past and it overlies Precambrian-aged rocks that may have metallic and non-metallic mineral potential. State land is currently leased more than two miles to the northeast for metallic mineral exploration. Much of Section 36 is classified as non-leasable. No gravel pits

are located in the area and potential appears to be limited. No economic oil and gas production has been found in the UP.

### Vehicle Access:

There are a number of two track roads through this compartment that originate from the Z-1 road and the Sturgeon Landing Road. Access is good through most of the compartment.

### **Survey Needs:**

Three to four registered survey corners will probably need to be set.

# **Recreational Facilities and Opportunities:**

There are no developed facilities within the compartment. There is an abandoned state forest campground and access site along the Menominee River. The access site on the Menominee River is still used by the public. The main use of this area is hunting, trapping, camping, and ORV riding.

### **Fire Protection:**

Most of the compartment consists of soils that are well drained, allowing the vegetation to dry out faster than normal. Most fires in this area would be ground fires due to the vegetation. Water is available from the Menominee River and a small creek/drain running through the eastern half of the compartment.

### **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

# Report 1 – Total Acres by Cover Type and Age Class

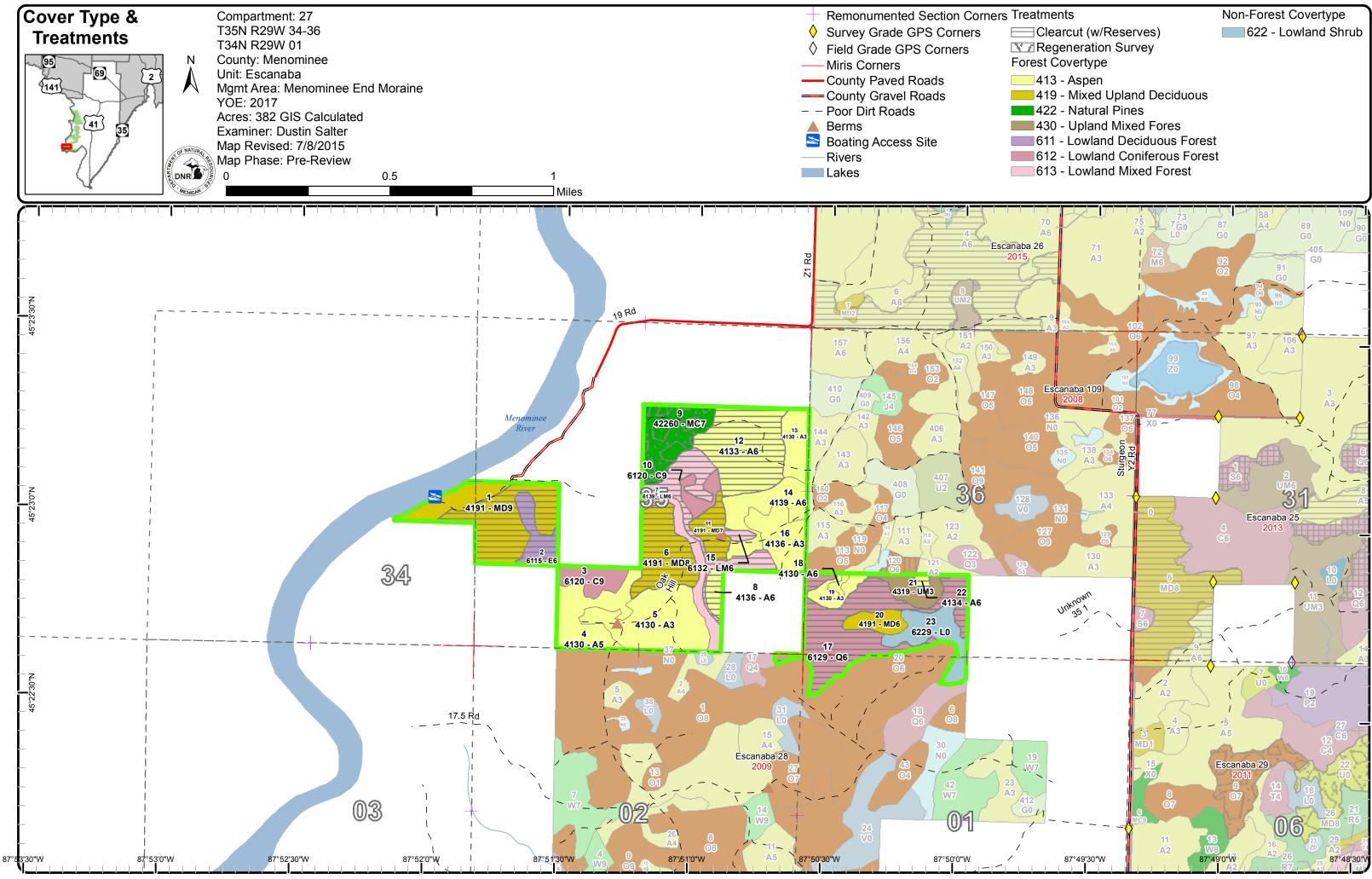
Escanaba Mgt. Unit

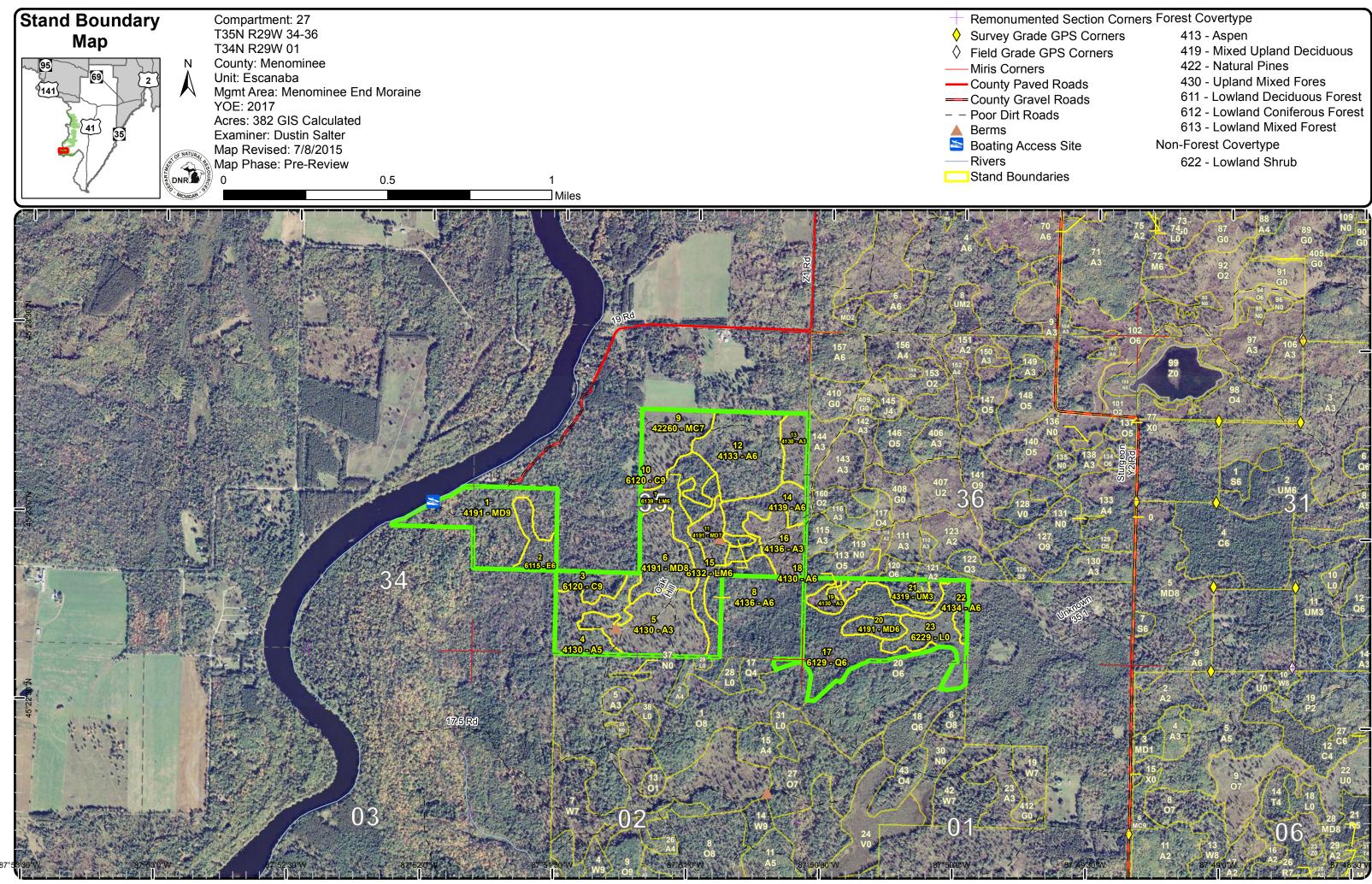
**Dustin Salter : Examiner** 

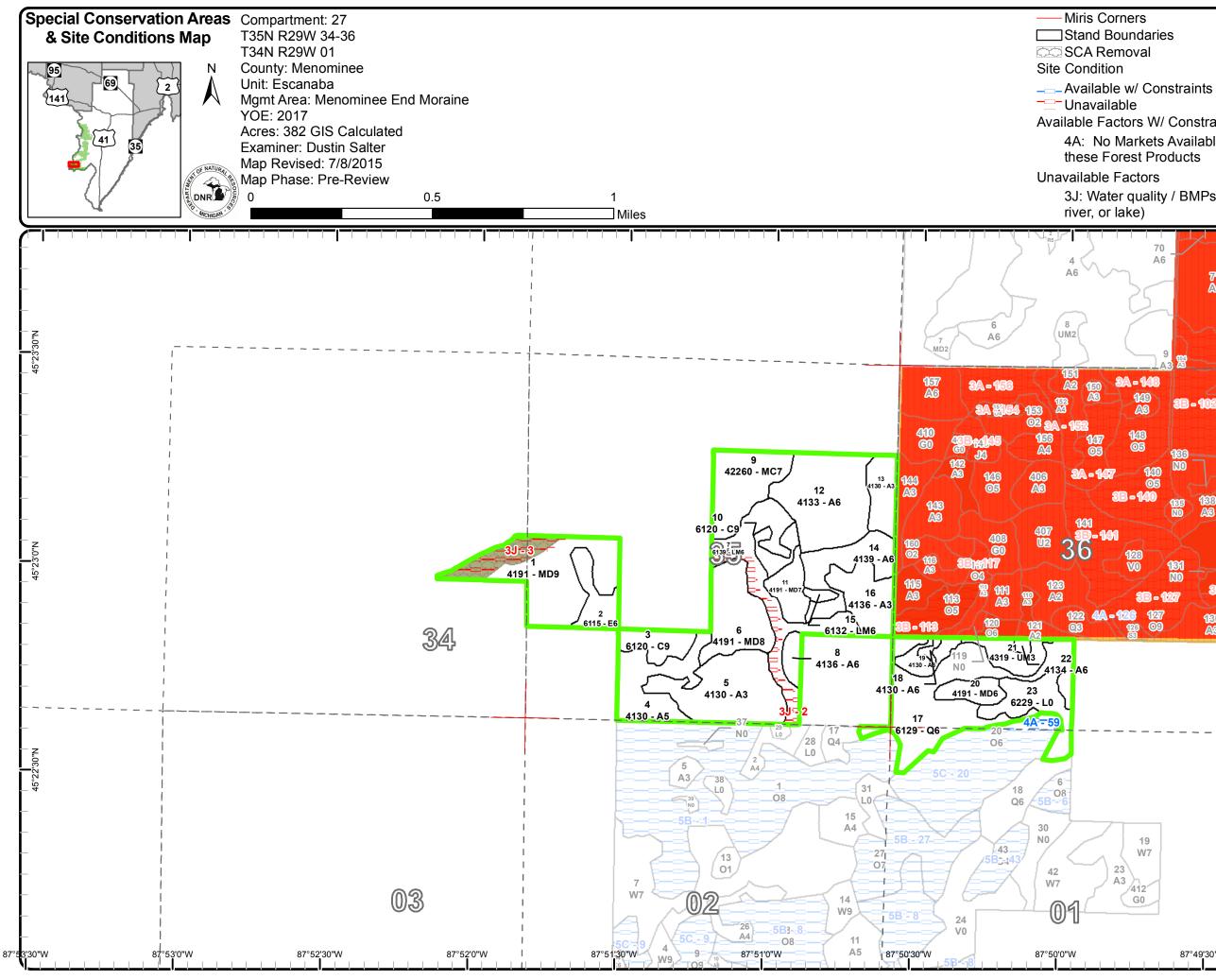


Age Class

|                        | Nor | to start of the st | 03 × | 6 <u>7</u> , | 25 25<br>28 - 25 | °, 1 | 00 - 20<br>00 - 20<br>00 - 20 | ŝ s | 88 / R | 1 <sup>6</sup> ~ ~ | \$<br>\$<br>\$ | 6° 00' | 7100<br>778,72 | 0. | 62 42 423 | 651 var | OF IN |    | 100 100 100 000 000 000 000 000 000 000 |  |
|------------------------|-----|--|------|--------------|------------------|------|-------------------------------|-----|--------|--------------------|----------------|--------|----------------|----|-----------|---------|-------|----|---|--|
| Aspen                  | 0   | 66   | 0    | 39           | 1                | 42   | 0                             | 0   | 0      | 0                  | 0              | 0      | 0              | 0  | 0         | 0       | 0     | 0  | 148                                     |  |
| Cedar                  | 0   | 0  | 0    | 0            | 0                | 0    | 0                             | 0   | 0      | 0                  | 0              | 0      | 9              | 6  | 0         | 0       | 0     | 0  | 15                                      |  |
| Lowland Conifers       | 0   | 0  | 0    | 0            | 0                | 0    | 0                             | 0   | 0      | 0                  | 0              | 0      | 48             | 0  | 0         | 0       | 0     | 0  | 48                                      |  |
| Lowland Deciduous      | 0   | 0  | 0    | 0            | 0                | 0    | 0                             | 0   | 0      | 0                  | 0              | 0      | 0              | 0  | 0         | 0       | 0     | 10 | 10                                      |  |
| Lowland Mixed Forest   | 0   | 0  | 0    | 0            | 0                | 0    | 0                             | 0   | 0      | 0                  | 2              | 0      | 31             | 0  | 0         | 0       | 0     | 0  | 33                                      |  |
| Lowland Shrub          | 16  | 0  | 0    | 0            | 0                | 0    | 0                             | 0   | 0      | 0                  | 0              | 0      | 0              | 0  | 0         | 0       | 0     | 0  | 16                                      |  |
| Mixed Upland Deciduous | 0   | 0  | 0    | 7            | 0                | 0    | 0                             | 0   | 0      | 0                  | 74             | 0      | 0              | 0  | 0         | 0       | 0     | 0  | 81                                      |  |
| Natural Mixed Pines    | 0   | 0  | 0    | 0            | 0                | 0    | 0                             | 0   | 0      | 0                  | 22             | 0      | 0              | 0  | 0         | 0       | 0     | 0  | 22                                      |  |
| Upland Mixed Forest    | 0   | 0  | 0    | 9            | 0                | 0    | 0                             | 0   | 0      | 0                  | 0              | 0      | 0              | 0  | 0         | 0       | 0     | 0  | 9                                       |  |
| Total                  | 16  | 66   | 0    | 55           | 1                | 42   | 0                             | 0   | 0      | 0                  | 98             | 0      | 88             | 6  | 0         | 0       | 0     | 10 | 382                                     |  |







Special Conservation Areas Ecological Reference Areas Non-Dedicated Natural Areas and National Natural Landmarks Available Factors W/ Constraints 4A: No Markets Available for these Forest Products 3J: Water quality / BMPs (stream, 88 A4 70 N0 89 A6 71 A3 92 02 G0 M6 91 ©0 96 3B 95 N0 N0 102 06 97 A3 106 A3 3A-148 149 A3 99 Z0 143 05 3A-93 3 98 A3 04 7 140 05 **3B - 140** X0 133 A3 185 N0 1 S6 31 133 A4 VO 13 N( 4 3B2 12 33-127 C6 127 09 180 A3 10 5 L0/ MD8 11 UM3 Q6 S6, 10 W8 U0 19 P2 A2 )27 A3 A5 12<sup>CC6</sup> MD1 C4 19 15/ 22 U0 W7 X0 07 18 14\_\_\_\_ 412 LO T4\_\_\_\_ G0 21 28 MD8 13 11 A2 ) W8 87°49'0'₩ A2 26 87°49'30"W A287°48'30'



 Year of Entry: 2017
 Acres of Harvest
 Total Compartment Acres: 382

 Commercial Harvest - 0
 Commercial Harvest - 0
 Farvests with Site Condition - 0

 Next Step Harvest - 0
 Next Step Harvest - 0
 Farvest - 0

 Habitat Cut - 22
 Farvest - 0
 Farvest - 0

# Cover Type by Harvest Method

|                        |       |     | Clearcut | Delection<br>of C | Clearcut | Contraction of the second | Tellow Nood | Oceaning Oceaning | (enone) | ogradie oo | in the second | Police Police |
|------------------------|-------|-----|----------|-------------------|----------|---------------------------|-------------|-------------------|---------|------------|---------------|---------------|
| Aspen                  |       | 42  | 0        | 0                 | 0        | 0                         | 0           | 0                 | 0       | 0          | 42            | 1             |
| Lowland Conifers       |       | 48  | 0        | 0                 | 0        | 0                         | 0           | 0                 | 0       | 0          | 48            |               |
| Lowland Deciduous      |       | 10  | 0        | 0                 | 0        | 0                         | 0           | 0                 | 0       | 0          | 10            |               |
| Lowland Mixed Forest   |       | 23  | 0        | 0                 | 0        | 0                         | 0           | 0                 | 0       | 0          | 23            |               |
| Mixed Upland Deciduous |       | 63  | 0        | 0                 | 0        | 0                         | 0           | 0                 | 0       | 0          | 63            |               |
|                        | Total | 186 | 0        | 0                 | 0        | 0                         | 0           | 0                 | 0       | 0          | 186           |               |

# Proposed and Next Step Treatments by Harvest Method

|           |       |     | IS IS | Co Lie | O NOT | O. Cooling | and a start | Control of the second | onion of the second | on No | 4 / 3 | Action of the second se |
|-----------|-------|-----|-------|--------|-------|------------|-------------|-----------------------|---------------------|-------|-------|--|
| Current   |       | 186 | 0     | 0      | 0     | 0          | 0           | 22                    | 0                   | 0     | 208   | r  |
| Next Step |       | 0   | 0     | 0      | 0     | 0          | 0           | 186                   | 0                   | 0     | 186   |  |
|           | Total | 186 | 0     | 0      | 0     | 0          | 0           | 208                   | 0                   | 0     | 393   |  |

| S<br>t   | Escanaba Mgt. Unit Report 4 Treatments |                                     |   |  |                               |   |  | nts  | •   | tment: 27<br>Entry: 2017         | DNR DNR R                 |
|--|--|-------------------------------------|---|--|-------------------------------|---|--|--|---|----------------------------------|---------------------------|
|  | eatment<br>Name                        | Acres                               | Stand<br>CoverType  | Size<br>Density                          | Stand<br>Age                  | BA<br>Range                             | Treatment<br>Type                                      | Treatment<br>Method                          | Cover Type<br>Objective                             | Age<br>Structure                 | Approval<br>Status        |
| 1 3302   | 27001-Cut                              | 30.6                                | 4191 - Mixed<br>Upland Deciduous<br>with Conifer  | Sawtimber<br>Well                        | 97                            | 111-<br>140                             | Harvest  | Clearcut with<br>Retention                   | 4136 - Aspen,<br>Mixed Conifer                      | Two-Aged                         | Proposal                  |
| Habitat (<br>Prescription<br>Specs:<br>Next Step | on Cut all<br>to the                   |                                     | Site Condition<br>ater than 4" inches;<br>punty Road Z-1 will   | -<br>except mark                         |                               |   |  |  | ees will be oak, pi                                 | ne, and hemlo                    | ck. The area              |
| Treatmen   | _                                      |                                     |   |  |                               |   |  |  |   |                                  |                           |
| <u>Acceptabl</u><br><u>Regen:</u>                | l <u>e</u> Aspen                       | maple, c                            | oak, pine, balsam fir,  | and spruce                               | •                             |   |  |  |   |                                  |                           |
| <u>Other</u><br>Comment                          | <u>:</u> two-ag<br>maple<br>Menon      | ed stand<br>stems tha<br>ninee Rive | 1988 on contract 0<br>with a mix of mature<br>at should be harvest<br>er. This site is not n<br>1-12 form Hickory [ | hardwoods<br>ed. The are<br>naintained a | with pir<br>a betwe<br>nymore | he and he<br>en the ro<br>, but it is s | mlock over you<br>ad and the rive<br>still used by the | unger aspen and re-<br>r was an old campo    | d maple. There is<br>ground and there v             | a lot of poor c<br>was an access | uality red<br>site to the |
| Proposed   | Start Date                             | -                                   | /2016   |  |                               |   |  |  |   |                                  |                           |
| 2 3302   | 27002-Cut                              | 10.1                                | 6115 - Lowland Ash  | Poletimber<br>Well                       | · 126                         | 111-<br>140                             | Harvest  | Clearcut with<br>Retention                   | 6117 - Lowland<br>Deciduous,<br>Mixed<br>Coniferous | Even-Aged                        | Proposal                  |
| Habitat (<br>Prescription<br>Specs:              |  | trees gre                           | Site Condition<br>ater than 3" inches;  | _  | to reta                       | in some c                               | edar, spruce, a  | and white pine seed                          | I trees.  |                                  |                           |
| <u>Next Step</u><br>Treatmen                     | -                                      |                                     |   |  |                               |   |  |  |   |                                  |                           |
| <u>Acceptabl</u><br><u>Regen:</u>                | l <u>e</u> A mix (                     | of lowland                          | I hardwoods and mix   | ked conifers                             |                               |   |  |  |   |                                  |                           |
| <u>Other</u><br>Comment                          |  | ash stan                            | d with some scatter   | ed good qua                              | lity ced                      | ar. Old n                               | ext step comm  | ents:  |   |                                  |                           |
| Proposed   | Start Date                             | <u>:</u> 10/1                       | /2016   |  |                               |   |  |  |   |                                  |                           |
| 6 3302   | 27006-Cut                              | 23.1                                | 4191 - Mixed<br>Upland Deciduous<br>with Conifer  | Sawtimber<br>Medium                      | · 95                          | 1-50                                    | Harvest  | Clearcut with<br>Retention                   | 4121 - Oak,<br>Aspen                                | Even-Aged                        | Proposal                  |
| Habitat (<br>Prescription<br>Specs:              | on Cut all                             | trees gre<br>ate regen              | Site Condition<br>ater than 4" inches;<br>eration following the   | except mark                              | to reta<br>chanica            | in some s<br>Ily scarify                | cattered oak a the stand.                              | nd pine. Leave end                           | ough stems to hav                                   | e 3% retentior                   | . If there isn't          |
| <u>Next Step</u><br>Treatmen                     |  |                                     |   |  |                               |   |  |  |   |                                  |                           |
| <u>Acceptabl</u><br><u>Regen:</u>                | l <u>e</u> Oak, a                      | spen, ma                            | ple, and pine.  |  |                               |   |  |  |   |                                  |                           |
| <u>Other</u><br>Comment                          | reduce ::<br>especi                    | d there is<br>ally the oa           | erwood cut in 2009<br>aspen, oak, and ma<br>ak. The oak is matu<br>e regeneration will p                            | aple regener<br>re and we a              | ation. I<br>re going          | n other a<br>g to lose t                | reas where the<br>he ability to reg                    | BA was left at 40 to<br>enerate it, via stum | o 50 there is signif<br>op sprouts if it is no      | ficantly less reg                | generation,               |
| Proposed   | Start Date                             | <u> </u>                            | /2016   |  |                               |   |  |  |   |                                  |                           |

| t   |   | Esca  | anaba Mgt. Unit   |   | Re  | eport 4   | Treatme  | nts   | Compart<br>Year of I   | ment: 27<br>Entry: 2017   | DNR DNR DNR   |
|---|---|---|---|---|---|---|--|---|--|---|---|
| a<br>n<br>d   | Treatment<br>Name   | Acres   | Stand<br>CoverType  | Size<br>Density   | Stand<br>Age  | BA<br>Range   | Treatment<br>Type  | Treatment<br>Method   | Cover Type<br>Objective  | Age<br>Structure  | Approval<br>Status  |
|   | 33027007-Cut  | 20.9  | 6139 - Mixed<br>Lowland Forest  | Poletimber<br>Well  | · 116   | 111-<br>140   | Harvest  | Clearcut with<br>Retention  | 6139 - Mixed<br>Lowland Forest   | Even-Aged   | Proposal  |
|   |   |   | Site Condition<br>ter than 3 inches; e<br>ark to retain a mix   | except retain   |   |   |  | f the creek. Also ir  | n areas of the stan  | d that are over   | <sup>-</sup> 100' feet                                      |
|   | <u>Step</u><br>tments:  |   |   |   |   |   |  |   |  |   |   |
| <u>Acce</u><br>Rege   | •   | aple, white   | e pine, spruce, tam   | arack, ceda   | r, balsa  | m fir, and  | balm.  |   |  |   |   |
| <u>Other</u><br>Com   | <u>ment:</u> some l<br>current  | high quality<br>Iy we don't   | vland hardwood and<br>v tamarack. The Ea<br>t have the exact po<br>step comments:                                   | astern Larch  | Beetle  | has alrea   | dy caused pock   | kets of tamarack m  | ortality. The treat  | ment area is a  | pproximate,   |
| Prop  | osed Start Date   | <u>:</u> 10/1 /   | /2016   |   |   |   |  |   |  |   |   |
| 8   | 33027008-Cut  | 4.5   | 4136 - Aspen,<br>Mixed Conifer  | Poletimber<br>Well  | · 48  | 81-110  | Harvest  | Clearcut  | 413 - Aspen  | Even-Aged   | Proposal  |
| Treat   | • •   | maple, oa   | ak, pine, balsam fir  | and spruce.   |   |   |  |   |  |   |   |
| <u>Other</u><br>Com   | ment:   |   | mature aspen and  | balsam fir w  | ith olde  | er pine and   | d oak. Old next  | step comments:  |  |   |   |
| <u>Other</u><br>Com   |   |   | ·   | balsam fir w<br>Sawtimber   |   | r pine and  | d oak. Old next<br>Monitoring  | step comments:<br>Natural Regen   | 4310 - Pine,   | Two-Aged  | Proposal  |
| Other<br>Comi<br>Prope  | ment:<br>osed Start Date  | <u>:</u> 10/1 /   | /2016   |   |   |   |  |   | 4310 - Pine,<br>Oak Mix  | Two-Aged  | Proposal  |
| Othe<br>Com<br>Propo<br>9<br>Habi<br>Preso<br>Spec<br>Next                            | ment:<br>osed Start Date<br>33027009-<br>Monitor<br>itat Cut: Yes<br>cription Check   | <u>:</u> 10/1 /<br>22.2<br>for regene   | /2016<br>42260 - Natural<br>Pine, Mixed   | Sawtimber<br>Poor   | · 95  | 1-50  | Monitoring   | Natural Regen<br>(Intermediate)   | Oak Mix  | U   | ·   |
| Othe<br>Com<br>Propo<br>9<br>Habi<br>Preso<br>Spec<br>Next<br>Treat                   | ment:<br>osed Start Date<br>33027009-<br>Monitor<br><u>itat Cut:</u> Yes<br>cription<br>Check<br>s: plant re<br>Step<br>tments:<br>eptable Pine, c  | 10/1 /<br>22.2<br>for regene<br>ed pine per   | /2016<br>42260 - Natural<br>Pine, Mixed<br>Deciduous<br>Site Condition<br>ration in 3 years to<br>TMS instructions. | Sawtimber<br>Poor   | · 95  | 1-50  | Monitoring   | Natural Regen<br>(Intermediate)   | Oak Mix  | U   | ·   |
| Othel<br>Comi<br>Propo<br>9<br>Habi<br>Preso<br>Spec<br>Next<br>Treat<br>Acce<br>Rege | ment:<br>osed Start Date<br>33027009-<br>Monitor<br>itat Cut: Yes<br>cription Check<br>sciption Check<br>plant re<br>Step<br>tments:<br>eptable Pine, c<br>en:<br>This st<br>ment: on FTF<br>pine to<br>oaks th<br>adequa | tion 10/1 / 22.2<br>for regene<br>ed pine per<br>pak, aspen,<br>and was sh<br>2 33-668 in<br>seed in. T<br>nat were cu<br>ately regen | /2016<br>42260 - Natural<br>Pine, Mixed<br>Deciduous<br>Site Condition<br>ration in 3 years to<br>TMS instructions. | Sawtimber<br>Poor<br>determine i<br>010 on cont<br>2 with a doze<br>now when I<br>uted, but the<br>ould be clea | f mecha<br>f mecha<br>ract 024<br>er and s<br>ooked a<br>e ones a<br>rcut and | 1-50<br>anical scar<br>I-07-01. (<br>kidder wit<br>at it, will ha | Monitoring<br>rification was ef<br>Dverall there was<br>h anchor chains<br>ave to check ag<br>edges of the sta | Natural Regen<br>(Intermediate)<br>fective. If the stan<br>as about 20 BA reta<br>s. The purpose wa<br>jain later in the yea<br>and have been hea | Oak Mix<br>d hasn't adequate<br>ained. This stand<br>as to expose miner<br>ar when the snow is<br>vily browsed by de | ly regenerate of<br>was mechanic<br>ral soil to allow<br>s gone. Quite<br>eer. If this star | ally scarified<br>the oak and<br>a few of the<br>d does not |

| Escanaba Mgt. Unit<br>S<br>t<br>a             |                            |                                       |  |                               | Re                 | eport 4                   | Treatme           | ents  | Compart<br>Year of E           | ment: 27<br>Entry: 2017 | TOP NATURAL PLAN OURCES |
|---|----------------------------|---------------------------------------|--|-------------------------------|--------------------|---------------------------|-------------------|---|--------------------------------|-------------------------|-------------------------|
| n Trea  | atment<br>ame              | Acres                                 | Stand<br>CoverType   | Size<br>Density               | Stand<br>Age       | BA<br>Range               | Treatment<br>Type | Treatment<br>Method                           | Cover Type<br>Objective        | Age<br>Structure        | Approval<br>Status      |
| 11 33027                                      | 7011-Cut                   | 9.2                                   | 4191 - Mixed<br>Upland Deciduous<br>with Conifer   | Sawtimber<br>Poor             | 95                 | 1-50                      | Harvest           | Clearcut with<br>Retention                    | 4122 - Oak, Pine               | Two-Aged                | Proposal                |
| Habitat C<br>Prescription<br>Specs:           | <u>n</u> Cut all           |                                       | Site Condition<br>ater than 4" inches;<br>eration following the                                      | -<br>except mark              |                    |                           |                   | nd pine. Leave en                             | ough stems to have             | e 3% retention          | . If there isn't        |
| <u>Next Step</u><br>Treatments                | <u>:</u>                   |                                       |  |                               |                    |                           |                   |   |                                |                         |                         |
| <u>Acceptable</u><br>Regen:                   | _ Oak, p                   | ine, asper                            | n, maple, and spruc  | e/fir.                        |                    |                           |                   |   |                                |                         |                         |
| <u>Other</u><br><u>Comment:</u><br>Proposed S | was re<br>especia<br>aspen | duced the<br>ally the oa<br>and maple | erwood cut in 2009<br>rre is aspen, oak, ar<br>ak. The oak is matu<br>e regeneration will p<br>/2016 | nd maple reg<br>ire and we ai | enerati<br>e going | on. In oth<br>g to lose t | her areas where   | e the BA was left at<br>generate it, via stum | 40 there is signific           | antly less rege         | eneration,              |
| 12 33027                                      |                            | 36.7                                  | 4133 - Aspen,  | Poletimber                    | 49                 | 81-110                    | Harvest           | Clearcut with                                 | 413 - Aspen                    | Even-Aged               | Proposal                |
| Habitat C<br>Prescriptior<br>Specs:           |                            | trees grea                            | Mixed Pine<br>Site Condition<br>ater than 3" inches;   | -                             | enoug              | h retentio                | n patches and     | Retention scattered oak and                   | pine to have 3% re             | tention.                |                         |
| <u>Next Step</u><br>Treatments                | <u>:</u>                   |                                       |  |                               |                    |                           |                   |   |                                |                         |                         |
| <u>Acceptable</u><br>Regen:                   | _ Aspen,                   | oak, and                              | pine.  |                               |                    |                           |                   |   |                                |                         |                         |
| <u>Other</u><br>Comment:                      | Good o                     | luality asp                           | pen stand with some  | e dense pock                  | tets of v          | white pine                | . Old next step   | p comments:                                   |                                |                         |                         |
| Proposed S                                    | Start Date                 | <u>:</u> 10/1                         | /2016  |                               |                    |                           |                   |   |                                |                         |                         |
| 15 33027                                      | 7015-Cut                   | 1.8<br>                               | 6132 - Mixed<br>Lowland Forest with<br>Cedar   | Poletimber<br>Well            | 98                 | 141-<br>170               | Harvest           | Clearcut                                      | 6139 - Mixed<br>Lowland Forest | Even-Aged               | Proposal                |
| Habitat C                                     |                            |                                       | Site Condition   |                               |                    |                           |                   |   |                                |                         |                         |
| Prescriptior<br>Specs:                        |                            |                                       | ater than 3" inches;<br>due to the small sta   |                               | some               | scattered                 | cedar, spruce,    | and white pine for                            | a seed source and              | diversity. The          | ere will not be         |
| <u>Next Step</u><br>Treatments                | <u>:</u>                   |                                       |  |                               |                    |                           |                   |   |                                |                         |                         |
| Acceptable<br>Regen:                          | _ Tamara                   | ack, spruc                            | ce, white pine, ceda   | r, ash, and re                | ed map             | le.                       |                   |   |                                |                         |                         |
| <u>Other</u><br>Comment:                      | Mature<br>comme            |                                       | wland stand with over  | erall low qua                 | lity. Th           | ere is alre               | eady some tam     | narack mortality from                         | n the Eastern Larc             | h Beetle. Old           | next step               |
| Proposed S                                    | Start Date                 | <u>:</u> 10/1                         | /2016  |                               |                    |                           |                   |   |                                |                         |                         |
| 17 33027                                      | 7017-Cut                   | 47.5                                  | 6129 - Mixed<br>Coniferous Lowland<br>Forest   | Poletimber<br>Well            | 117                | 81-110                    | Harvest           | Clearcut with<br>Retention                    | 6121 - Tamarack                | Even-Aged               | Proposal                |
| Habitat C                                     | ut: No                     |                                       | Site Condition   | :                             |                    |                           |                   |   |                                |                         |                         |
|   |                            | trees grea                            | ater than 3" inches;   |                               | to reta            | in some c                 | edar seed tree    | es/clumps. Leave e                            | nough residual to l            | nave 3% reten           | tion.                   |
| <u>Next Step</u><br>Treatments                | <u>::</u>                  |                                       |  |                               |                    |                           |                   |   |                                |                         |                         |
| <u>Acceptable</u><br><u>Regen:</u>            | _ Tamara                   | ack, ceda                             | r, spruce, balsam fii  | , and ash.                    |                    |                           |                   |   |                                |                         |                         |
| <u>Other</u><br>Comment:                      |                            |                                       | d has good quality n<br>astern Larch Beetle  |                               |                    |                           | ality cedar mix   | ed in. There are po                           | ockets of tamarack             | mortality throu         | ighout the              |
| Proposed S                                    | Start Date                 | <u>:</u> 10/1                         | /2016  |                               |                    |                           |                   |   |                                |                         |                         |

| S<br>t                                    |   | Esca       | anaba Mgt. Unit                      |                    | Re           | eport 4     | Treatme           | nts                 | Compar<br>Year of       | OF NATURAL PRODUCT |                    |
|---|---|------------|--------------------------------------|--------------------|--------------|-------------|-------------------|---------------------|-------------------------|--------------------|--------------------|
| a<br>n<br>d                               | Treatment<br>Name                                       | Acres      | Stand<br>CoverType                   | Size<br>Density    | Stand<br>Age | BA<br>Range | Treatment<br>Type | Treatment<br>Method | Cover Type<br>Objective | Age<br>Structure   | Approval<br>Status |
| 22  | 33027022-Cut  | 1.2        | 4134 - Aspen,<br>Spruce/Fir          | Poletimber<br>Well | r 47         | 81-110      | Harvest           | Clearcut            | 413 - Aspen             | Even-Aged          | Proposal           |
| <u>Spec</u><br><u>Next</u><br><u>Trea</u> | <u>cs:</u><br><u>Step</u><br>tments:<br>eptable_ Aspen, | Ū          | ter than 3" inches.<br>, spruce/fir. | No retention       | n will be    | e left due  | to the small star | nd size.            |                         |                    |                    |
| <u>Othe</u><br>Com                        | er Good o<br>Iment:                                     | uality asp | en stand with a miz                  | x of other spo     | ecies m      | ixed in. (  | Old next step co  | mments:             |                         |                    |                    |
| <u>Prop</u>                               | osed Start Date   | <u> </u>   | /2016                                |                    |              |             |                   |                     |                         |                    |                    |
| A   | Total Treatme<br>Creage Propos                          | 2          | 07.7                                 |                    |              |             |                   |                     |                         |                    |                    |

Escanaba Mgt. Unit

Compartment: 27 Year of Entry: 2017

# Dustin Salter : Examiner

**Dominant Site Conditions** 

| Aspen                  |
|------------------------|
| Cedar                  |
| Lowland Conifers       |
| Lowland Deciduous      |
| Lowland Mixed Forest   |
| Lowland Shrub          |
| Mixed Upland Deciduous |
| Natural Mixed Pines    |
| Upland Mixed Forest    |
| Total Forested Acres   |
| 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.

| Dominant Site<br>Cond Availability       | Dominant Site Condition   | Acres   | Other Site Condition   | Other Site Condition   | Other Site Condition   | Other Site Condition  |
|--|---|---|--|--|--|---|
| Unavailable                              | 3J: Water quality / BMPs<br>(stream, river, or lake)  | 10  | 3L: Other wildlife concerns  | Unspecified  | Unspecified  | Unspecified   |
| <b>Comments:</b><br>This part of stand 7 | provides a buffer along a sma   | all creek t   | hat flows through part of t  | he stand. This stand also  | provides a riparian corrido  | r for wildlife.   |
| Unavailable                              | 3J: Water quality / BMPs<br>(stream, river, or lake)  | 11  | Unspecified  | Unspecified  | Unspecified  | Unspecified   |
| Comments:<br>This stand provides         | a buffer along the Menomine   | e River a   | nd also protects an old sta  | ate forest campground and  | access site.   |   |
| Available                                | 4A: No Markets Available for these Forest Products  | 3   | Unspecified  | Unspecified  | Unspecified  | Unspecified   |
| Comments:                                |   |   |  |  |  |   |
|  | Cond Availability<br>Unavailable<br>Comments:<br>This part of stand 7<br>Unavailable<br>Comments:<br>This stand provides<br>Available | Cond AvailabilityDominant Site ConditionUnavailable3J: Water quality / BMPs<br>(stream, river, or lake)Comments:This part of stand 7 provides a buffer along a smallUnavailable3J: Water quality / BMPs<br>(stream, river, or lake)Comments:This stand provides a buffer along the Menomined<br>AvailableAvailable4A: No Markets Available<br>for these Forest Products | Cond AvailabilityDominant Site ConditionAcresUnavailable3J: Water quality / BMPs<br>(stream, river, or lake)10Comments:Image: Comment of Stand 7 provides a buffer along a small creek to the stand is part of Stand 7 provides a buffer along a small creek to the stand of Stand 7 provides a buffer along a small creek to the stand of Stand 7 provides a buffer along a small creek to the stand provides a buffer along the Menominee River a stand provides a buffer along the Menominee River a stand provides a buffer along the Menominee River a for these Forest Products3 | Cond AvailabilityDominant Site ConditionAcresOther Site ConditionUnavailable3J: Water quality / BMPs<br>(stream, river, or lake)103L: Other wildlife<br>concernsComments:This part of stand 7 provides a buffer along a small creek that flows through part of tUnavailable3J: Water quality / BMPs<br>(stream, river, or lake)11UnspecifiedComments:This stand provides a buffer along the Menominee River and also protects an old stateAvailable4A: No Markets Available<br>for these Forest Products3Unspecified | Cond AvailabilityDominant Site ConditionAcresOther Site ConditionOther Site ConditionUnavailable3J: Water quality / BMPs<br>(stream, river, or lake)103L: Other wildlife<br>concernsUnspecifiedComments:<br>This part of stand 7 provides a buffer along a small creek that flows through part of the stand. This stand alsoUnspecifiedUnavailable3J: Water quality / BMPs<br>(stream, river, or lake)11UnspecifiedUnavailable3J: Water quality / BMPs<br>(stream, river, or lake)11UnspecifiedComments:<br>This stand provides a buffer along the Menominee River and also protects an old state forest campground and<br>for these Forest Products3UnspecifiedAvailable4A: No Markets Available<br>for these Forest Products3Unspecified | Cond AvailabilityDominant Site ConditionAcresOther Site ConditionOther Site ConditionOther Site ConditionUnavailable3J: Water quality / BMPs<br>(stream, river, or lake)103L: Other wildlife<br>concernsUnspecifiedUnspecifiedComments:<br>This part of stand 7 provides a buffer along a small creek that flows through part of the stand. This stand also provides a riparian corridorUnspecifiedUnspecifiedUnavailable3J: Water quality / BMPs<br>(stream, river, or lake)11UnspecifiedUnspecifiedUnavailable3J: Water quality / BMPs<br>(stream, river, or lake)11UnspecifiedUnspecifiedComments:<br>This stand provides a buffer along the Menominee River and also protects an old state forest campground and access site.Stand provides a buffer along the Menominee River and also protects an old state forest campground and access site.Available4A: No Markets Available<br>for these Forest Products3UnspecifiedUnspecified |



## 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       |
|--|---|--------------------------------------|-----------------------------|-------------|
| Unspecified                            | Potential Old Growth                        |                                      | SCA Removal                 | 6           |
| <b>Comments</b> This stand is listed a | s potential old growth. This stand contains | the old boat access site for the old | d campground. This stand is | adiacent to |
|  | r. Nice hardwood stand, which contains so   |                                      |                             |             |
| Unspecified                            | Potential Old Growth                        |                                      | SCA Removal                 | 4           |

# Comments

This stand is listed as potential old growth. This stand contains the old Menominee River Campground. It has a mature overstory with a thick understory of hardwood species. A white pine has recently been illegaly cut.



# 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.

| Conservat<br>Area | ion Type  | Description  | ERA = Ecological Reference Area<br>HCVA = High Conservation Value Area<br>SCA = Special Conservation Area  |
|-------------------|---|--|--|
| SCA               | Non-Dedicated<br>Natural Areas and<br>National Natural<br>Landmarks | This category is comprised of those Natural, Wilderness and Wil<br>proposed for legal dedication, but for which legal dedication by le<br>nomination process is defined by Part 351, Wilderness and Natu<br>Environmental Protection Act, 1994 PA 451. The program is adm<br>require the submittal of a Natural Areas Nomination Packet to the<br>proposed sites in various stages of review. Final dedication of no<br>Areas is accomplished through legislative action.  | egislature has not occurred. The<br>ral Areas, of the Natural Resources and<br>ninistered by the DNR. Nominations<br>e DNR. This is an active program, with  |
| HCVA              | Legally dedicated<br>Natural Areas,<br>Wilderness or<br>Wild Areas  | The nomination process is defined by Part 351, Wilderness and<br>and Environmental Protection Act, 1994 PA 451. The program is<br>require the submittal of a Natural Areas Nomination Packet to the<br>proposed sites in various stages of review. Final dedication of no<br>Areas is accomplished through legislative action.   | administered by the DNR. Nominations e DNR. This is an active program, with  |
| ERA               | Ecological<br>Reference Areas                                       | Ecological Reference Areas (ERAs) are high quality examples of<br>identified as Element Occurrences (EOs) by the Michigan Natura<br>context of their natural community classification system. Element<br>(Excellent) or B (Good) and a Global (G) or State (S) element (ra<br>threatened (2), or rare (3) serve as an initial base of ERAs. They<br>the State. The system is comprised of individual or associations<br>managed for restoration and maintenance of natural ecological p<br>submit recommendations for lands as ERAs using the DNR Cons | al Features Inventory (MNFI) within the<br>t Occurrences with viability ranks of A<br>urity) ranking of endangered (1),<br>may be located upon any ownership in<br>of natural community types that are<br>processes and values. The public may |

| S<br>t      | Escanaba                                      | a Mgt. Unit          |       | Report 8     | - Forested  | Stands  | Compartment: 27<br>Year of Entry: 2017  | OF NATURAL RESOURCE  |
|-------------|---|----------------------|-------|--------------|-------------|---|---|--|
| a<br>n<br>d | Level 4<br>Cover Type                         | Size<br>Density      | Acres | Stand<br>Age | BA<br>Range |   | General<br>Comments:  | MICHIGAN   |
| 1           | 4191 - Mixed Upland<br>Deciduous with Conifer | Sawtimber<br>Well    | 41.9  | 97           | 111-140     | species were cur<br>marked to cut. Thi<br>hardwoods with pin-<br>maple. There is<br>should be harvester<br>was an old campg<br>Menominee River.<br>still used by the pu   | 988 on contract 019-87-01. All<br>t and the other longer lived spec<br>is is a two-aged stand with a mis<br>e and hemlock over younger as<br>a lot of poor quality red maple s<br>d. The area between the road a<br>rround and there was an access<br>This site is not maintained anym<br>blic. There was a strip of Bittern<br>it died out in 2011-12 form Hicko   | ties were<br>of mature<br>ben and red<br>tems that<br>and the river<br>site to the<br>hore, but it is<br>hut Hickory                             |
| 2           | 6115 - Lowland Ash                            | Poletimber<br>Well   | 10.1  | 126          | 111-140     | Mature ash stand  | d with some scattered good qua  | lity cedar.  |
| 3           | 6120 - Lowland Cedar                          | Sawtimber<br>Well    | 9.2   | 115          | Unspecified | Good quality ceda   | r stand that provides good winte  | ering cover.   |
| 4           | 4130 - Aspen                                  | Poletimber<br>Medium | 21.2  | 26           | Immature    |   | t in 1989 on contract 019-87-01;<br>s retained. The aspen is average  |  |
| 5           | 4130 - Aspen                                  | Sapling Well         | 33.1  | 5            | Immature    | pine and oak we   | in 2010 on contract 024-07-01; e<br>re marked to retain. This stand<br>spen with a significant amount o<br>maple mixed in.  | has fully  |
| 6           | 4191 - Mixed Upland<br>Deciduous with Conifer | Sawtimber<br>Medium  | 23.1  | 95           | 1-50        | There was about 40<br>where the BA was<br>regeneration. In oth<br>there is significantly<br>oak is mature and w<br>it, via stump sprouts  | rwood cut in 2009 on contract 02<br>BA of mixed species retained.<br>s reduced there is aspen, oak, a<br>her areas where the BA was left<br>less regeneration, especially th<br>ve are going to lose the ability to<br>s if it is not harvested soon. Also<br>meration will provide too much s<br>regenerate the oak.   | In the areas<br>and maple<br>at 40 to 50<br>be oak. The<br>regenerate<br>b, the aspen  |
| 7           | 6139 - Mixed Lowland<br>Forest                | Poletimber<br>Well   | 31.3  | 116          | 111-140     | small creek that flo<br>end of the stand has  | nd hardwood and conifer stand.<br>ows through parts of this stand.<br>s some high quality tamarack.<br>ready caused pockets of tamara   | The north<br>The Eastern   |
| 8           | 4136 - Aspen, Mixed<br>Conifer                | Poletimber<br>Well   | 4.5   | 48           | 81-110      | Stand is a mix of m   | nature aspen and balsam fir with and oak.   | n older pine   |
| 9           | 42260 - Natural Pine,<br>Mixed Deciduous      | Sawtimber<br>Poor    | 22.2  | 95           | 1-50        | Overall there was<br>mechanically scarific<br>a dozer and skidde<br>expose mineral soil<br>was 8"+ of snow w<br>later in the year whe<br>that were cut hav<br>edges of the stand<br>stand does not ac<br>clearcut and planted | terwood cut in 2010 on contract<br>is about 20 BA retained. This st<br>ed on FTP 33-668 in November<br>er with anchor chains. The purp<br>to allow the oak and pine to see<br>then I looked at it, will have to cl<br>in the snow is gone. Quite a few<br>e stump sprouted, but the ones<br>have been heavily browsed by of<br>dequately regenerate this stand<br>d with red pine. Check the regen-<br>nine if any other treatments are the | and was<br>of 2012 with<br>ose was to<br>ed in. There<br>neck again<br>v of the oaks<br>along the<br>deer. If this<br>should be<br>neration in 3 |
| 10          | 6120 - Lowland Cedar                          | Sawtimber<br>Well    | 5.6   | 129          | 141-170     |   | edar stand, but some of the ceda<br>s stand provides good winter cov  |  |

| S<br>t           | Escanaba Mgt. Unit                            |                    |       | Report 8 – Forested Stands |             |   | Compartment: 27<br>Year of Entry: 2017   |                              |
|------------------|---|--------------------|-------|----------------------------|-------------|---|--|------------------------------|
| t<br>a<br>n<br>d | Level 4<br>Cover Type                         | Size<br>Density    | Acres | Stand<br>Age               | BA<br>Range |   | General<br>Comments:   | He Michigan                  |
| 11               | 4191 - Mixed Upland<br>Deciduous with Conifer | Sawtimber<br>Poor  | 9.2   | 95                         | 1-50        | There was about 30 to<br>areas where the BA<br>maple regeneration. In<br>there is significantly les<br>oak is mature and we a<br>it, via stump sprouts if i<br>and maple regener            | chelterwood cut in 2009 on contract 024-07-01.<br>but 30 to 40 BA of mixed species retained. In the<br>e the BA was reduced there is aspen, oak, and<br>ration. In other areas where the BA was left at 40<br>cantly less regeneration, especially the oak. The<br>and we are going to lose the ability to regenerate<br>brouts if it is not harvested soon. Also, the aspen<br>e regeneration will provide too much shade to<br>regenerate the oak. |                              |
| 12               | 4133 - Aspen, Mixed<br>Pine                   | Poletimber<br>Well | 36.7  | 49                         | 81-110      | Good quality aspen st   | and with some dense pocke<br>pine.   | ts of white                  |
| 13               | 4130 - Aspen                                  | Sapling Well       | 10.6  | 6                          | Immature    | Stand was clearcut in 2009 on contract 024-07-01. All oak and pine were retained. The stand has fully regenerated with aspen.   |  |                              |
| 14               | 4139 - Aspen, Mixed<br>Deciduous              | Poletimber<br>Well | 17.7  | 27                         | Immature    | pine and oak was r<br>regenerated to a mix of<br>dense pockets of the r   | vas clearcut in 1988 on contract 025-87-01; except some<br>e and oak was retained. Overall the stand has fully<br>rated to a mix of aspen, oak, and red maple. With some<br>pockets of the residual oak and pine, especially on the<br>west side of the stand.   |                              |
| 15               | 6132 - Mixed Lowland<br>Forest with Cedar     | Poletimber<br>Well | 1.8   | 98                         | 141-170     |   | stand with overall low quality<br>mortality from the Eastern I   |                              |
| 16               | 4136 - Aspen, Mixed<br>Conifer                | Sapling Well       | 16.5  | 7                          | Immature    | acres of this stand or<br>placed around it. There<br>of this stand in the 1980  | vas clearcut in 2007-08 on contract 023-07-01. About 4 of this stand oak wilt, which had a vibratory plow line round it. There was also another oak wilt pocket cut out tand in the 1980's in the southeastern part of the stand. tand has fully regenerated to a mix of aspen and oak.  |                              |
| 17               | 6129 - Mixed<br>Coniferous Lowland<br>Forest  | Poletimber<br>Well | 47.5  | 117                        | 81-110      | quality cedar mixed in.   | good quality mature tamarac<br>There are pockets of tamara<br>and from the Eastern Larch I   | ack mortality                |
| 18               | 4130 - Aspen                                  | Poletimber<br>Well | 1.2   | 38                         | 1-50        |   | pen, the stand is growing ve<br>nerchantable stems to harve  |                              |
| 19               | 4130 - Aspen                                  | Sapling Well       | 5.9   | 7                          | Immature    | pine, oak, and cedar<br>regenerated with aspen  | 008 on contract 023-07-01; e<br>were retained. Most of the s<br>except the southern part is<br>h percentage of the oak that<br>stump sprouted.   | stand has<br>filling in with |
| 20               | 4191 - Mixed Upland<br>Deciduous with Conifer | Poletimber<br>Well | 7.0   | 26                         | Immature    | Stand was clearcut in 1989 on contract 025-87-01; except the mature oak was retained. Stand is fully stocked with a wide variety of species, manage this stand on a 50 to 60 year rotation. |  |                              |
| 21               | 4319 - Mixed Upland<br>Forest                 | Sapling Well       | 8.7   | 25                         | 51-80       | pine and oak was retain   | and was clearcut in 1990 on contract 025-87-01; except some<br>ne and oak was retained. Parts of this stand has dense aspen<br>nd other areas have a mix of conifer regeneration. The stand<br>is fully stocked.   |                              |
| 22               | 4134 - Aspen,<br>Spruce/Fir                   | Poletimber<br>Well | 1.2   | 47                         | 81-110      | Good quality aspen sta  | and with a mix of other speci  | es mixed in.                 |

Compartment: 27 Year of Entry: 2017



| Stand | Cover Type                 | Acres | Managed<br>Site | General Comments:                                       |
|-------|----------------------------|-------|-----------------|---|
| 23    | 6229 - Mixed lowland shrub | 16.2  | No              | Thick tagalder swamp with scattered tamarack and cedar. |