



**FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 81 ENTRY YEAR: 2011

Compartment Acreage: 853 County: Gladwin

Revision Date: January 2009, April 2009, Oct. 2009

Stand Examiner: Steven Nyhoff

Legal Description: T17N R2E Sections 7 and 8

RMU (if applicable):

Management Goals:

Most of the compartment has been heavily managed for aspen in the last 30 years. All the aspen stands are less than 30 years old. Much of it is now sub poles or just becoming poles and not ready for harvest. In addition, the operable swamp hardwoods stands have also been heavily managed as well. Currently, only one stand needs treatment. It was left along Estey Road so visual consideration will need to be taken into account.

Continue to manage the stands for their current cover types.

Soil and Topography:

The terrain is very hummocky and many of the uplands stands have inclusions of lowlands. These can either be swamp hardwoods, L-Types or N-types.

The soils in the compartment are mainly Roscommon and Iosco associations, which are typically wet or have a seasonally high water table.

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

The state land is in one block of state ownership. There are private ownerships along the edges of the compartment. Most private lands are in small holdings of less than 20 acres. The private lands along Estey Road are permanent residences. The private lands in the northern end are recreational properties that are land locked. Currently these are being looked at for purchase.

Unique, Natural Features (include only non-site specific and non-sensitive information):

No known records and no new occurrences were located during the OI process

Archeological, Historical, and Cultural Features

No known records and none were located during the OI process.

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Denton creek runs though the compartment and Guernsey Creek goes through the north end. These creeks are warm water creeks and flow into the Tittabawassee River. There are no timber harvest schedules along these creeks. Therefore, fisheries concerns this YOY are minimal.

Wildlife Habitat Considerations:

The compartment is well suited for the new Woodcock Initiative program. Gladwin County provides some of the better grouse and woodcock habitat areas across the State of Michigan. Older A3 stands, within this compartment, provide the essential loafing locations during the day, while L types produce attractive feeding areas toward evening. The recent acquisition within Section 7 (SE1/4, NE1/4) will add opportunities for both bird and hunter (high stem density situations).

Mineral Resource and Development Concerns and/or Restrictions:

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 100 and 400 feet. Beneath the Glacial Drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw Formation is used for clay/shale for brick making in other areas of the State. This area is predominantly sand, and gravel potential in the compartment is considered limited. Bentley Field is located in the Compartment. Bentley, discovered in 1937, has produced over 3 MBO from the Devonian Richfield Formation. The Compartment is currently leased for oil and gas exploration and has some producing wells in it. This Compartment has been nominated for nonmetallic potash leasing and exploration.

Vehicle Access:

The area has a significant trail system associated with the oil development so access is good.

Survey Needs:

No surveys are needed at this time.

Recreational Facilities and Opportunities:

The Midland to Mackinac Boy Scout hiking trail runs along the east side of the compartment. The trail is well marked but does go through two creeks and has no notable structures on them for crossing.

There are no other established recreational facilities in the compartment.

Fire Protection:

The compartment has a mixture of cover types. Most are of lower fire concerns. There are a few pine stands. However, with the terrain and high water table, the fire danger is low overall.

Additional Compartment Information:

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: 81

Table 3

(acres shown in boxes)

STAND AGE CLASS

| COVER TYPE | Not Coded | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 100-109 | 110-119 | 120-129 | 130-139 | 140-149 | 150-159 | All Aged | Total |
|--------------|-----------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|---------|---------|---------|---------|---------|----------|-------|
| Aspen | | 32 | 297 | 143 | | | | | | | | | | | | | | | 472 |
| Bog or Marsh | 4 | | | | | | | | | | | | | | | | | | 4 |
| Grass | 21 | | 5 | | | | | | | | | | | | | | | | 26 |
| Lowlnd Brush | 50 | | | | | | | | | | | | | | | | | | 50 |
| Lowlnd Poplr | | | 10 | 20 | | | | | | | | | | | | | | | 30 |
| Marsh | 45 | | | | | | | | | | | | | | | | | | 45 |
| Swamp Hrdwds | | | | | | | 14 | | | 8 | 16 | | | | | | | 149 | 187 |
| Water | 39 | | | | | | | | | | | | | | | | | | 39 |
| Total | 159 | 32 | 312 | 163 | | | 14 | | | 8 | 16 | | | | | | | 149 | 853 |

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: 81

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

| COVER TYPE | A | S | V | C | G | H | J | I | L | P | N | Q | X | O | B | R | K | Y | F | E | T | D | U | M | Z | W | Total |
|----------------|-----|---|---|---|----|---|---|---|----|----|----|---|---|---|---|---|---|---|---|-----|---|---|---|---|----|---|-------|
| A Aspen | 472 | | | | | | | | | | | | | | | | | | | | | | | | | | 472 |
| V Bog or Marsh | | | 4 | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| G Grass | | | | | 26 | | | | | | | | | | | | | | | | | | | | | | 26 |
| L LowInd Brush | | | | | | | | | 50 | | | | | | | | | | | | | | | | | | 50 |
| P LowInd Poplr | | | | | | | | | | 30 | | | | | | | | | | | | | | | | | 30 |
| N Marsh | | | | | | | | | | | 45 | | | | | | | | | | | | | | | | 45 |
| E Swamp Hrdwds | | | | | | | | | | | | | | | | | | | | 187 | | | | | | | 187 |
| Z Water | | | | | | | | | | | | | | | | | | | | | | | | | 39 | | 39 |
| Total | 472 | | 4 | | 26 | | | | 50 | 30 | 45 | | | | | | | | | 187 | | | | | 39 | | 853 |

AUSABLE STATE FOREST

GLADWIN FOREST MGT UNIT

GLADWIN COUNTY

COMPARTMENT: **81**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

| COMPARTMENT SUMMARY | | | |
|--------------------------|----------|-----------------------------|---------|
| TOTAL VOLUME | | CUT VOLUME | |
| Hardwood | 1563 Cds | Hardwood | 171 Cds |
| Hardwood | 445 Mbf | Hardwood | 17 Mbf |
| Sum TotVol | 2453 Cds | Sum CutVol | 205 Cds |
| Total Cmpnt Acres | | Acres Proposed For Cut..... | 14 |
| 853 | | | |

GLADWIN FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 81

Entry Year: 2011

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | fdf Status |
|-------|------------|-------|-----|------------|-----------------|-----------|---------------|------------------|----------------------|------------|
| 13 | E6 | 14 | 48 | 68 | swamp hardwoods | immature | final harvest | 1 | natural regeneration | |

comnts Fmd : The stand has 2 borrow pits in it. These were created to build up the road for oil wells. The stand is heavy to poles. The aspen in the stand is patchy and not uniformity scattered. The stand could be clear cut to 4" DBH. The area is a mixture of uplands and lowlands. Retention should be done by marking 1 or 2 trees for visual along Estey Road. The Midland to Mackanaw Boy Scout Hiking Trail goes through the north end of the stand protect the blue marked trees and the tred were possible.

Total Acres..... 14

**Proposed Treatments
With Limiting Factors**

Compartment: 81

Entry Year: 2011

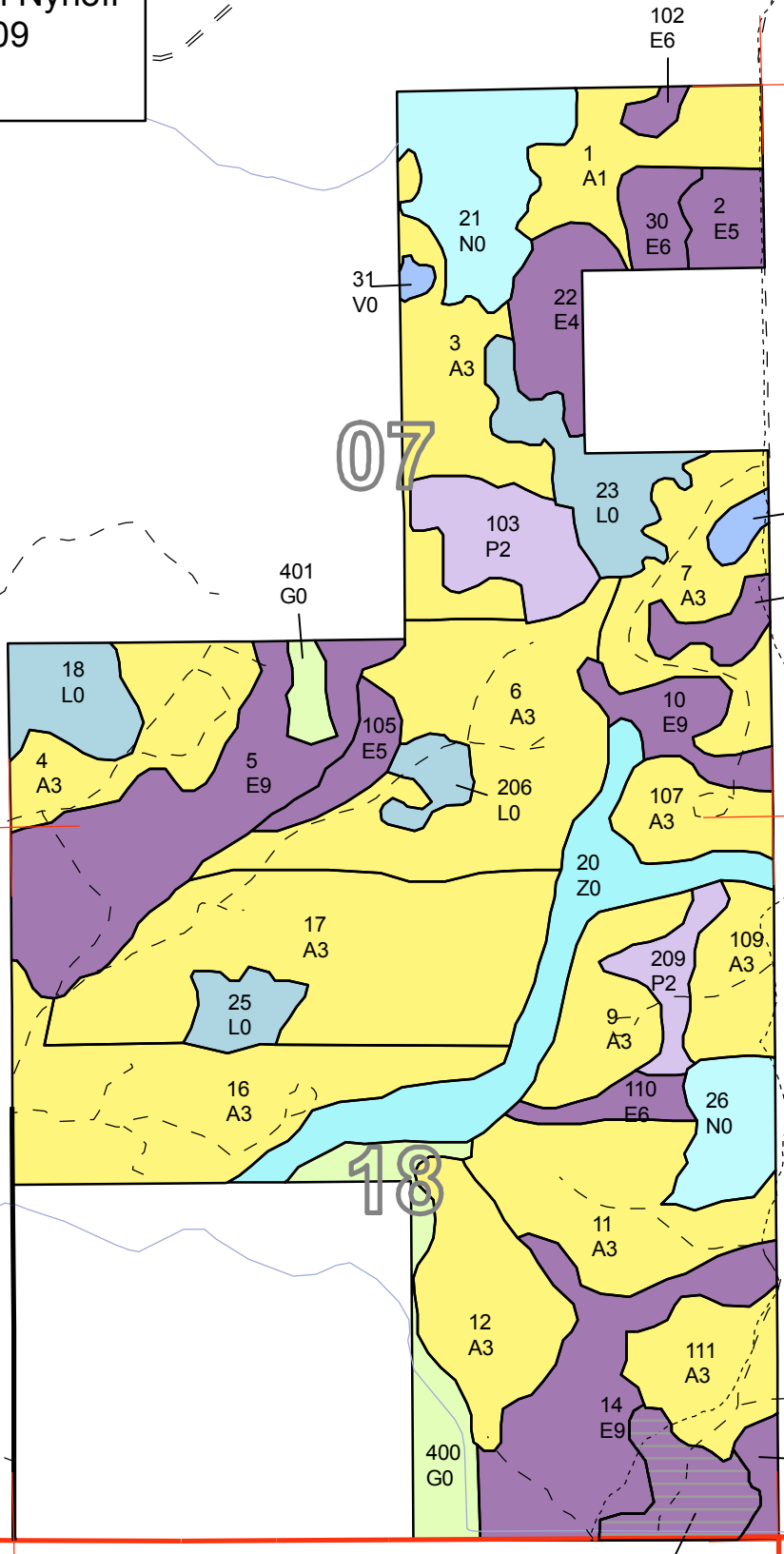
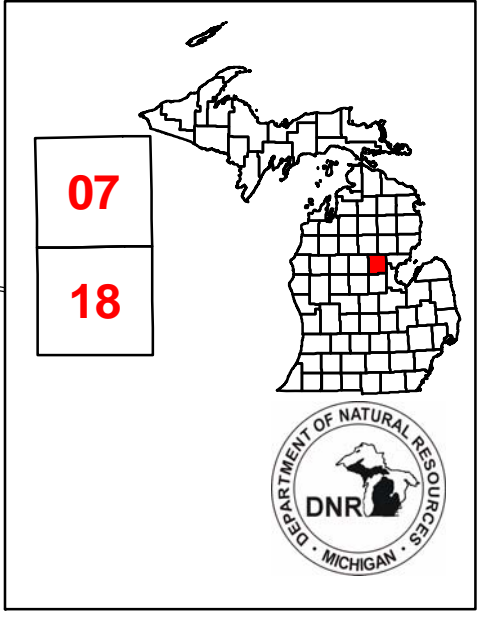
| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FD Status |
|--------------|-----------------------|--------------|------------|-----------------------|--------------------|------------------|-----------------------|-----------------------------|--------------------------|----------------------|
|--------------|-----------------------|--------------|------------|-----------------------|--------------------|------------------|-----------------------|-----------------------------|--------------------------|----------------------|

TREATMENT LIMITING FACTORS:

Total Acres..... 0

Covertypes & Treatment Map

Compartment 81
 T17N, R2E, Sec. 7, 18
 County: Gladwin
 Unit: Gladwin
 YOE: 2011
 Acres: 853 GIS Calculated
 Stand Examiner: Steven Nyhoff
 Map Revised: 10/29/2009
 Map Phase: Draft



Legend

- Miris Corners
- County Paved Roads
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Trails
- Water Features
- Stand Boundaries
- A - Aspen
- E - Swamp Hardwoods
- G - Grass
- L - Lowland Brush
- N - Marsh
- P - Balsam Poplar, Swamp Aspen, Swamp White Birch
- V - Bog or Muskeg
- Z - Water

Treatments

- 148 - Final harvest/Natural regeneration/Other (see comments)



84.180°W 84.170°W 84.160°W

43.520°N 43.530°N 43.540°N

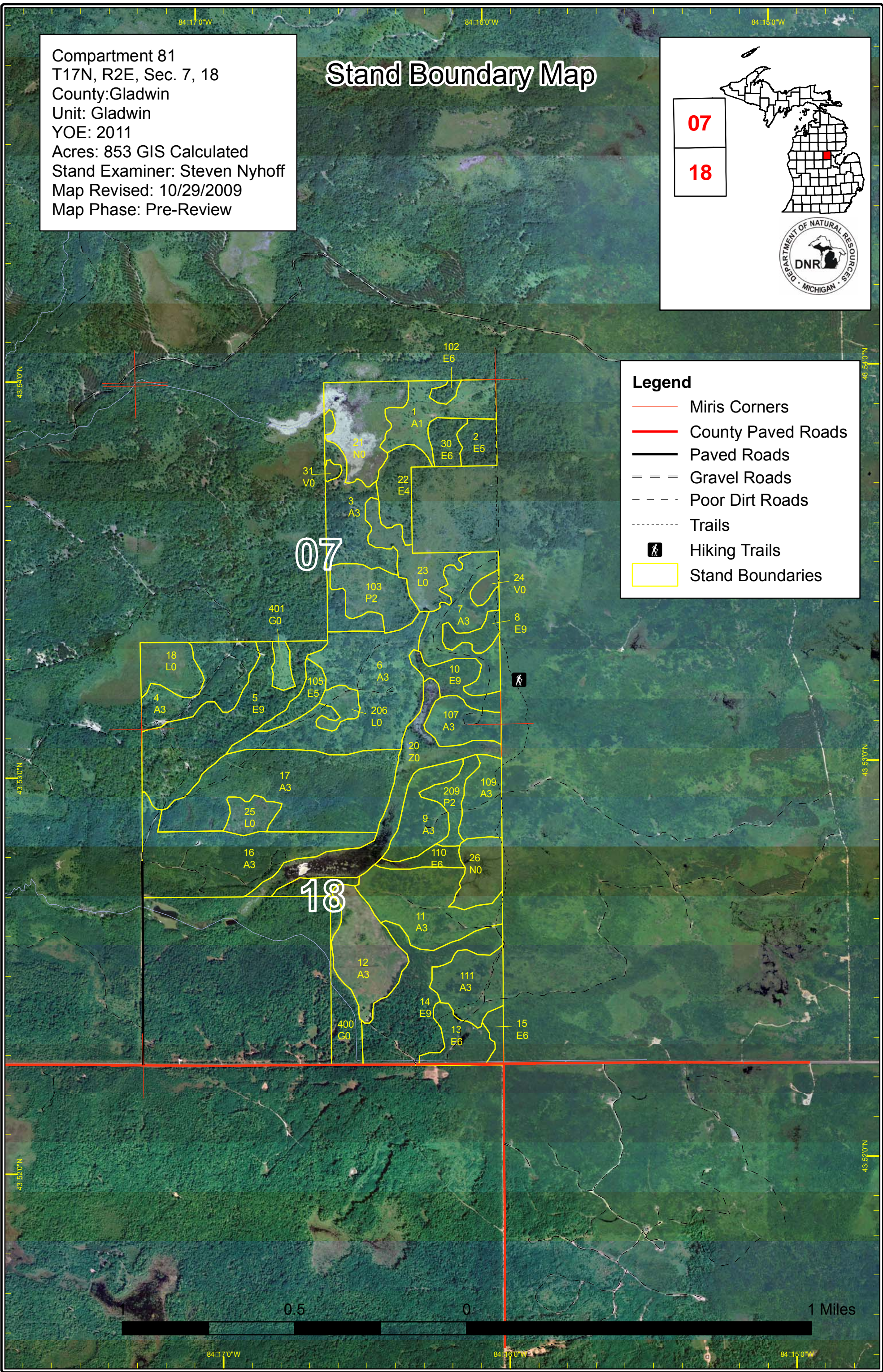
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 Map Phase: Pre-Review

Stand Boundary Map

07
 18
 DEPARTMENT OF NATURAL RESOURCES
 DNR
 MICHIGAN

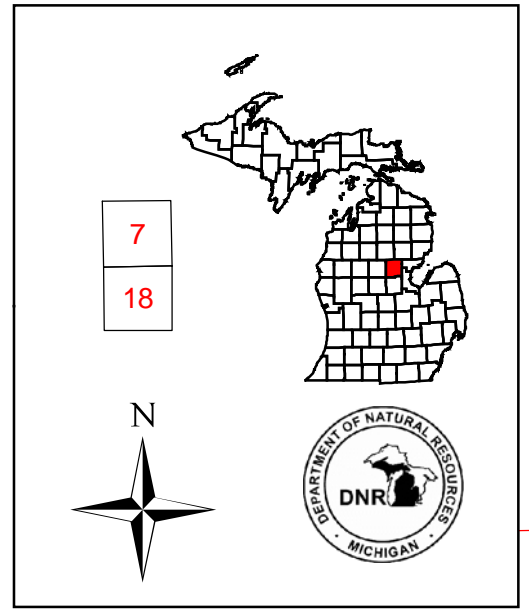
Legend

- Miris Corners
- County Paved Roads
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Trails
- Hiking Trails
- Stand Boundaries



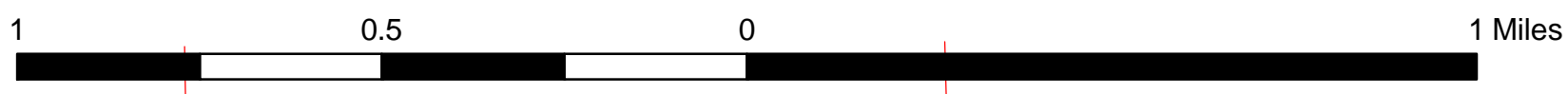
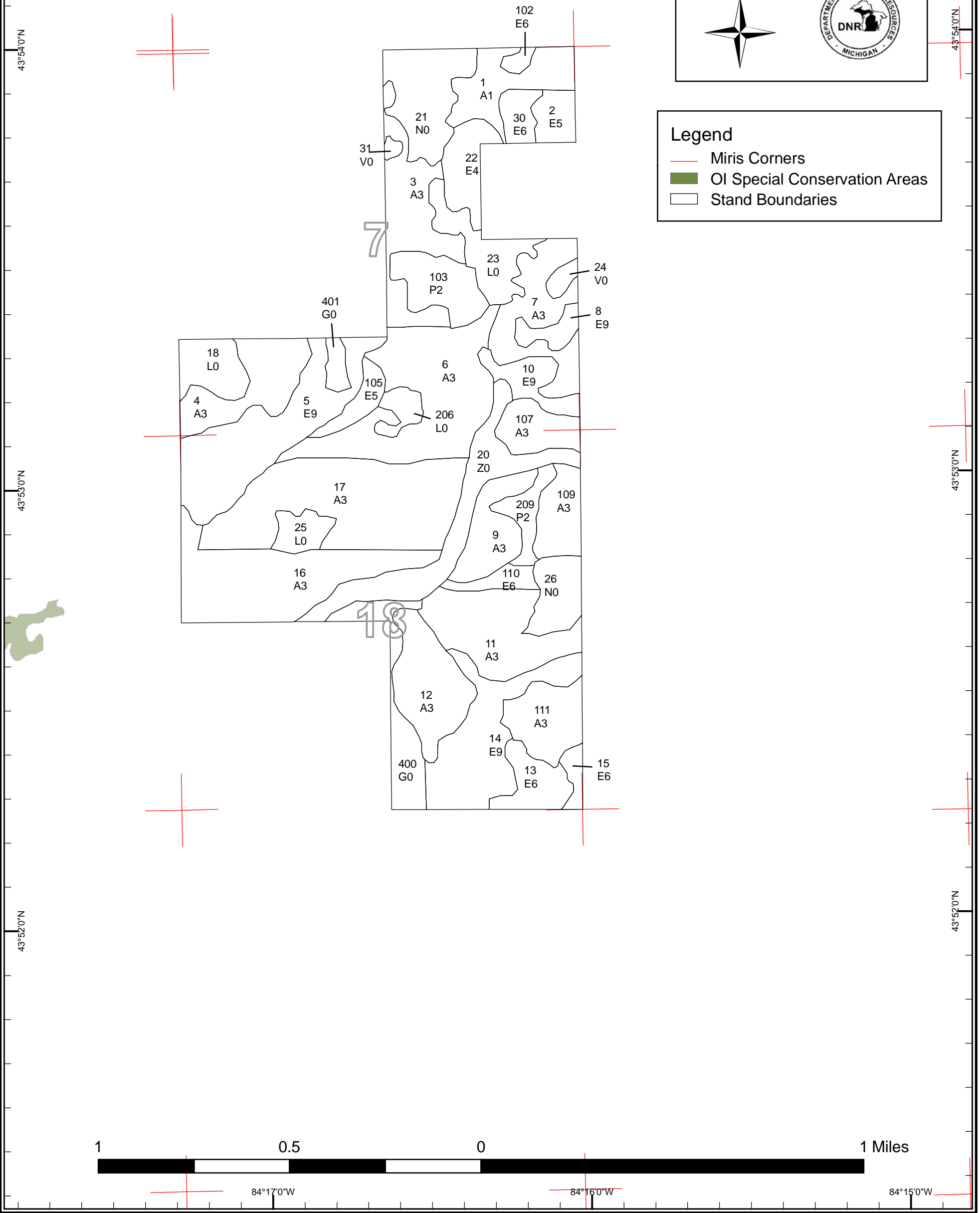
Dedicated & Proposed Special Conservation Area Map

Compartment 81
 T17N, R2E, Sec. 7, 18
 County: Gladwin
 Unit: Gladwin
 YOE: 2011
 Acres: 853 GIS Calculated
 Stand Examiner: Steven Nyhoff
 Map Revised: 10/29/2009
 Map Phase: Pre-Review



Legend

- Miris Corners
- OI Special Conservation Areas
- Stand Boundaries





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 |
|--------------------------|-------------|--------------------|
|--------------------------|-------------|--------------------|
