



**PIGEON RIVER COUNTRY MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT 9 ENTRY YEAR: 2011

Compartment Acreage: 1896 County: Cheboygan

Review Date:

August 25, 2009

Stand Examiner:

Rick McDonald

Legal Description:

T33N - R01W sections 4, 9 and 16

RMU (if applicable):

Not Applicable

Management Goals:

Maintain current species mix and apply appropriate management techniques to mature stands of timber that are in need of treatment.

Soil and Topography:

Terrain is flat to gently rolling with the uplands comprised of primarily well-drained Cheboygan sand and Rubicon sand toward the lower ground.

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

Entirely state-owned lands.

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

None identified.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

None identified.

Special Management Designations or Considerations:

The Pigeon River is a State-designated Natural River.

Watershed and Fisheries Considerations:

A portion of the Pigeon River flows through the southwest corner of the compartment.

Wildlife Habitat Considerations:

Please refer to Wildlife Biologist's comments.

Mineral Resource and Development Concerns and/or Restrictions:

Sections 4, 9 and 16, T33N-R1W, Cheboygan County

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and coarse-textured glacial till. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Devonian Antrim Shale that is quarried for cement products elsewhere in the State. Gravel pits are not located in this area, but there is potential. This area was previously leased for oil and gas development. The Antrim Shale subcrops in this area and probably is too thin for production. The Guelph (Niagaran) reef trend is located four miles to the southeast. There is limited oil and gas potential for known producing formations in this compartment.

Vehicle Access:

There is good access to most, if not all, of the compartment. Most of the forest roads, however, have been closed to wheeled motorized vehicles with virtually all those closures still intact.

Survey Needs:

None required.

Recreational Facilities and Opportunities:

Pine Grove Campground is in the southwest corner of the compartment. The High Country Pathway runs the full length of the compartment. A portion of the horse trail runs along the east edge of the compartment.

Fire Protection:

Access is generally good in case of any fire suppression efforts, though the area is generally at low risk to any wildfire potential. Most road systems are closed with berms.

Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

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

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: 9

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		14	125	322	5	4		18	5	38									531
Cedar											4		29	7	13		35		88
Grass	34																		34
Jack Pine			15																15
Lowlnd Brush	9																		9
Lowlnd Poplr										28									28
Mx Swmp Cnfr									14										14
Red Pine																		11	11
Spruce Fir								5	8										13
Swamp Hrdwds											21			18					39
Upland Hdwds						37												943	980
White Pine													30	2				102	134
Total	43	14	140	322	5	41		23	27	66	25		59	27	13		35	1056	1896

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

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: 9

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	519																									12	531
C Cedar				88																							88
G Grass					34																						34
J Jack Pine							15																				15
L Lowlnd Brush									9																		9
P Lowlnd Poplr										28																	28
Q Mx Swmp Cnfr												14															14
R Red Pine																11											11
F Spruce Fir																			13								13
E Swamp Hrdwds																				39							39
M Upland Hdwds																								980			980
W White Pine																										134	134
Total	519			88	34		15		9	28		14				11			13	39				980	146	1896	

MACKINAW STATE FOREST

PIGEON RIVER COUNTRY MGT UNIT

CHEBOYGAN COUNTY

COMPARTMENT: **9**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	20876 Cds	Hardwood	3098 Cds
Hardwood	3996 Mbf	Hardwood	383 Mbf
Softwood	2849 Cds	Sum CutVol	3864 Cds
Softwood	1550 Mbf		
Sum TotVol	34817 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	341
	1896		

PIGEON RIVER COUNTRY MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 9

Entry Year: 2011

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDf Status
1	M6	176		58	northern hardwood	unevenaged	selection	1		
comnts Fmd : HIGH COUNTRY PATHWAY										
24	M6	165		70	northern hardwood	unevenaged	selection	1		
400	G0	4			grass	nonstocked		0	opening maintenance	
401	G0	5			grass	nonstocked		0	opening maintenance	
405	G0	17			grass	nonstocked		0	opening maintenance	
comnts Fmd : This opening is filling in with brush and saplings. Quite a bit of autumn olive planted in this opening. Wildlife recommends mechanical and chemical treatment of autumn olive.										
Total Acres.....		367								

**Proposed Treatments
With Limiting Factors**

Compartment: 9

Entry Year: 2011

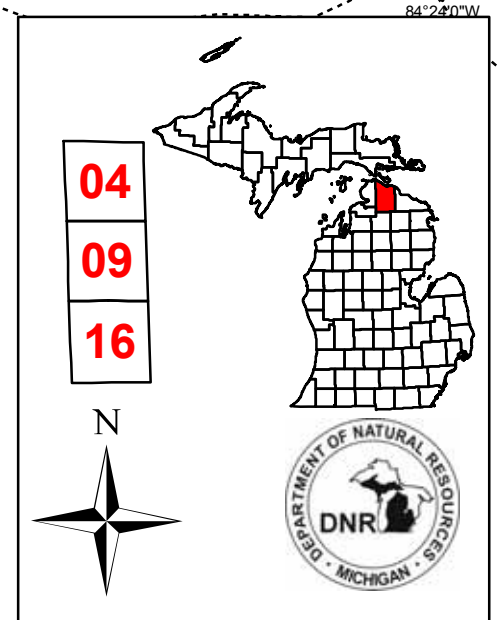
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres.....

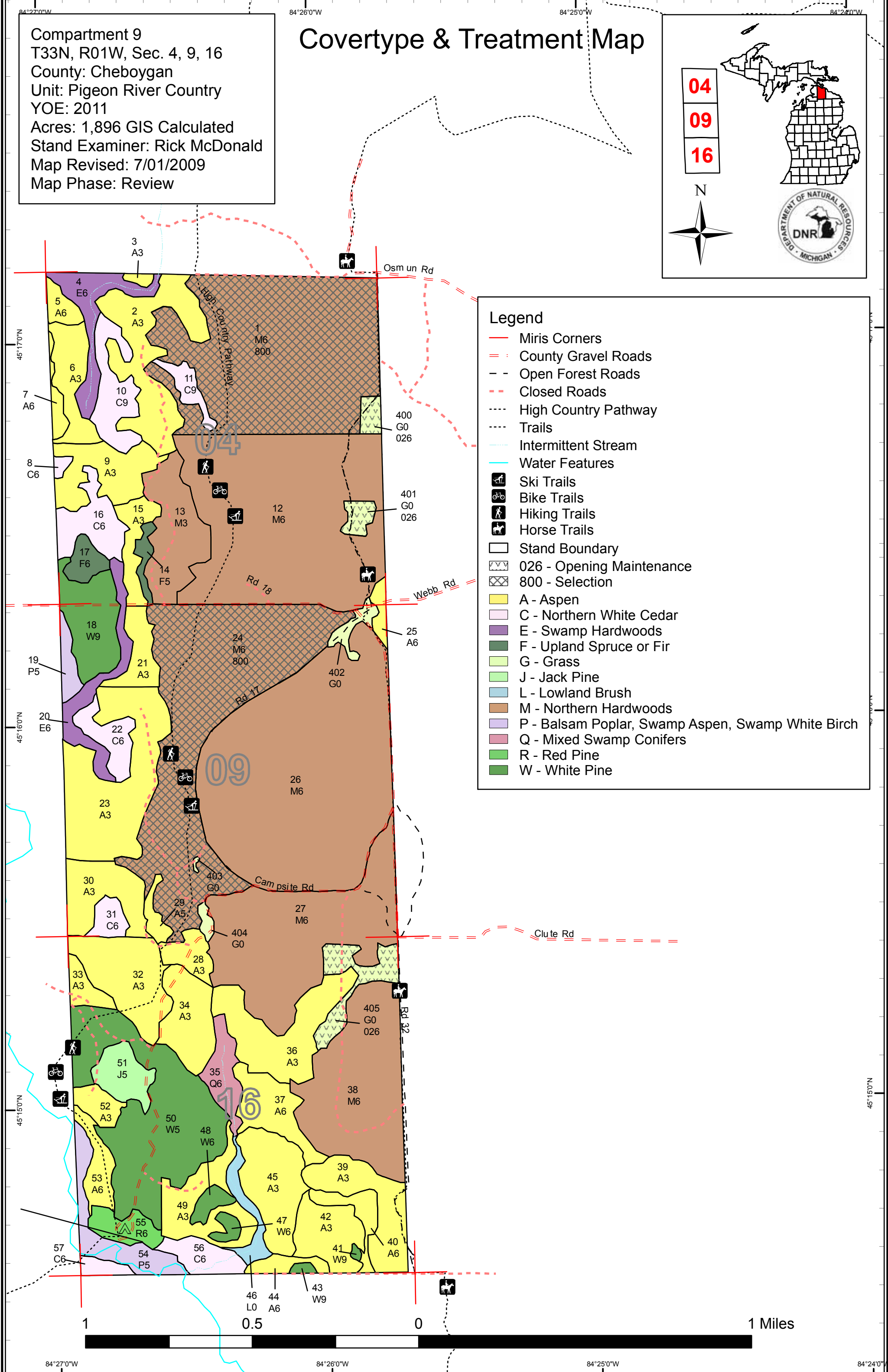
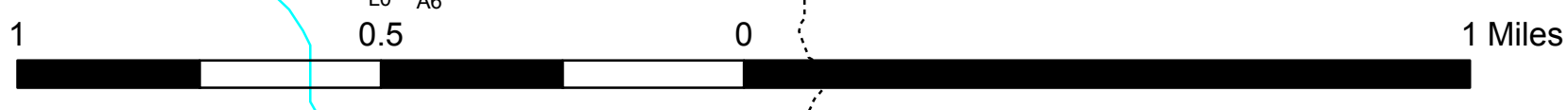
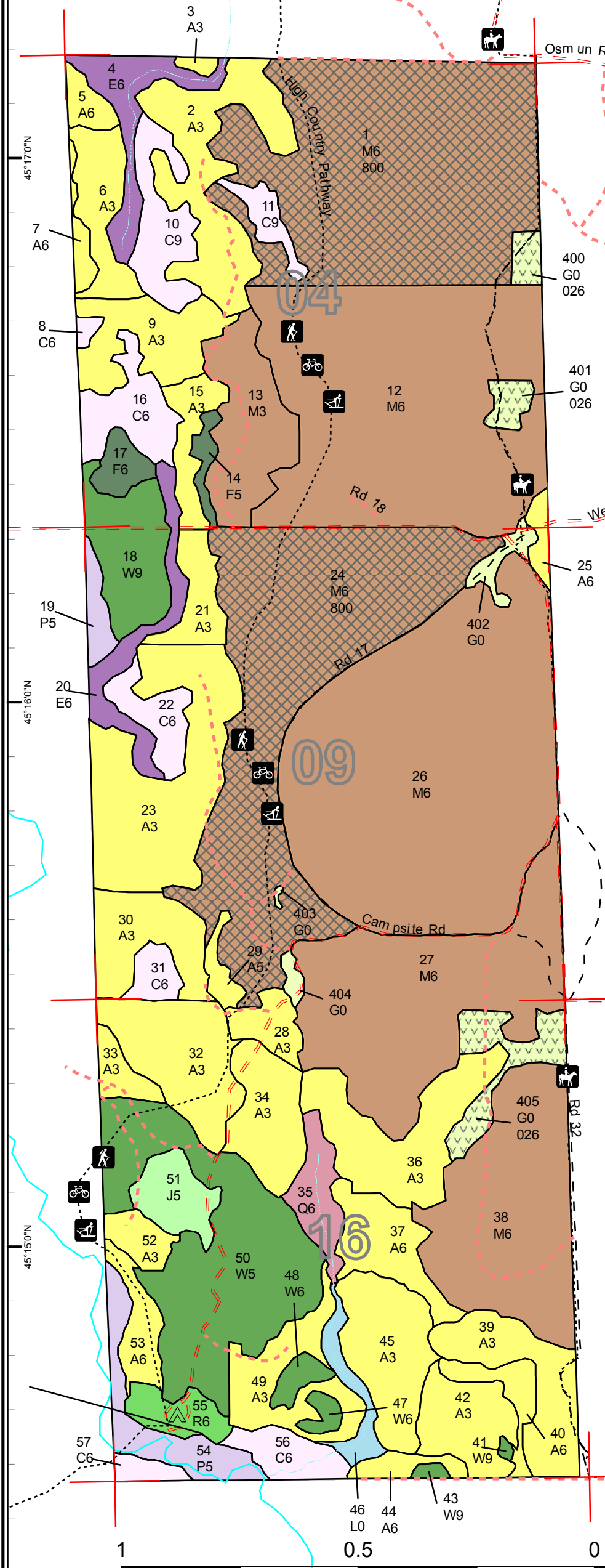
Compartment 9
 T33N, R01W, Sec. 4, 9, 16
 County: Cheboygan
 Unit: Pigeon River Country
 YOE: 2011
 Acres: 1,896 GIS Calculated
 Stand Examiner: Rick McDonald
 Map Revised: 7/01/2009
 Map Phase: Review

Covertime & Treatment Map



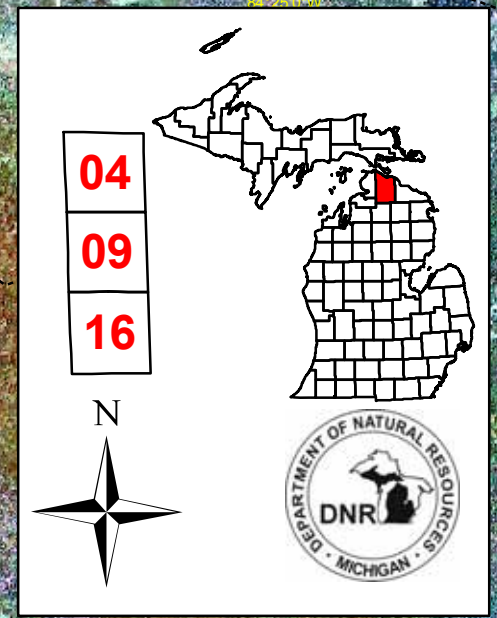
Legend

- Miris Corners
- - - County Gravel Roads
- - - Open Forest Roads
- - - Closed Roads
- - - High Country Pathway
- - - Trails
- Intermittent Stream
- Water Features
- Ski Trails
- Bike Trails
- Hiking Trails
- Horse Trails
- Stand Boundary
- 026 - Opening Maintenance
- 800 - Selection
- A - Aspen
- C - Northern White Cedar
- E - Swamp Hardwoods
- F - Upland Spruce or Fir
- G - Grass
- J - Jack Pine
- L - Lowland Brush
- M - Northern Hardwoods
- P - Balsam Poplar, Swamp Aspen, Swamp White Birch
- Q - Mixed Swamp Conifers
- R - Red Pine
- W - White Pine



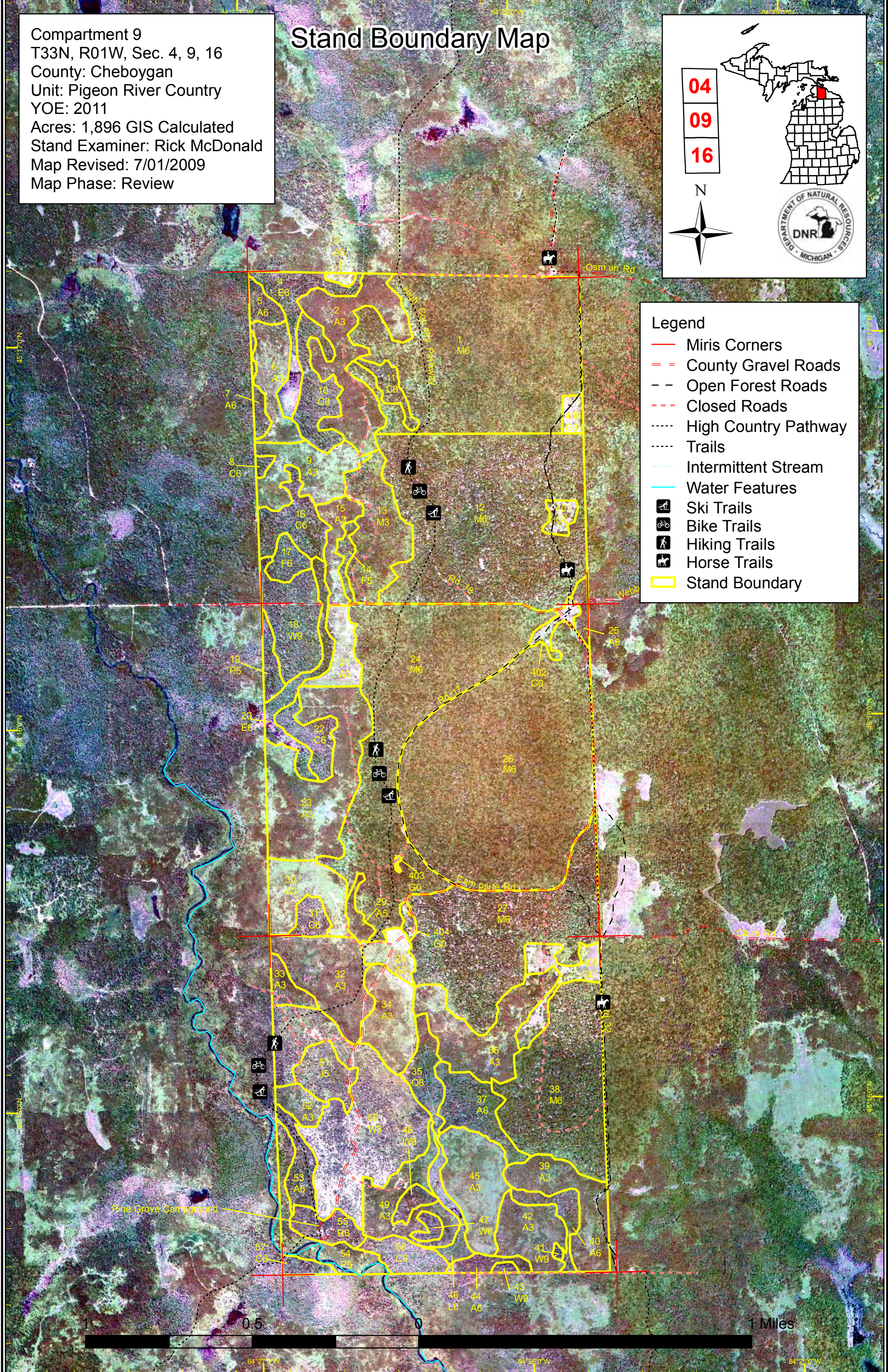
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 Map Revised: 7/01/2009
 Map Phase: Review

Stand Boundary Map



Legend

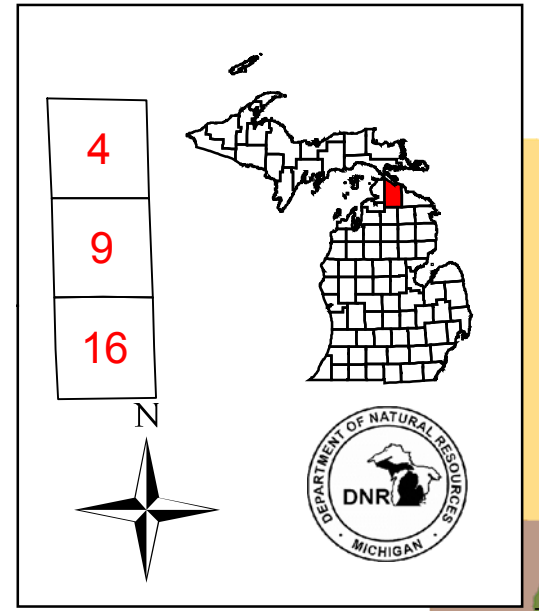
- Miris Corners
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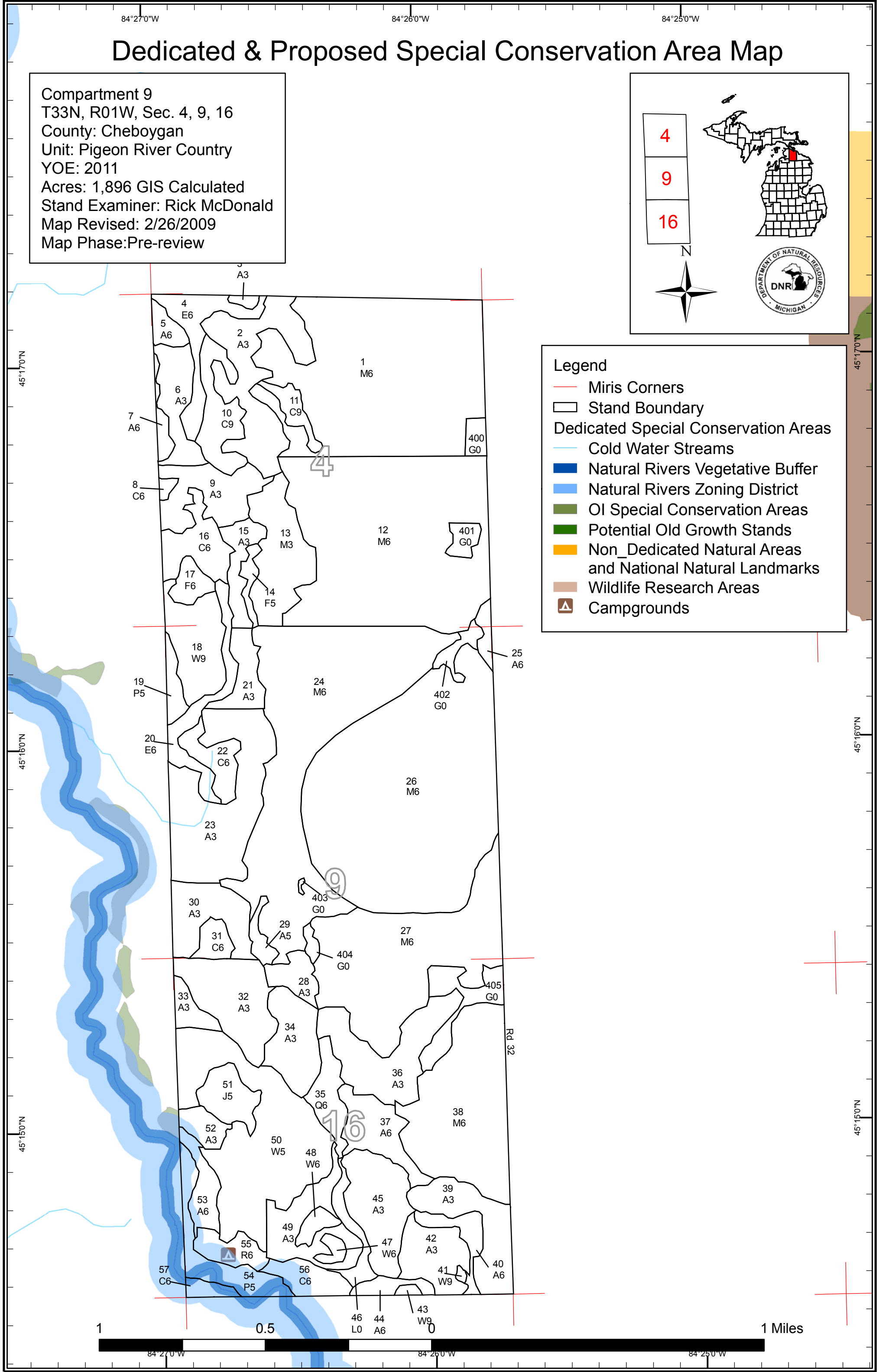
45° 17' 00" N
 45° 16' 00" N
 45° 15' 00" N
 45° 14' 00" N
 45° 13' 00" N
 45° 12' 00" N
 45° 11' 00" N
 45° 10' 00" N
 45° 09' 00" N
 45° 08' 00" N
 45° 07' 00" N
 45° 06' 00" N
 45° 05' 00" N
 45° 04' 00" N
 45° 03' 00" N
 45° 02' 00" N
 45° 01' 00" N
 45° 00' 00" N
 84° 27' 00" W
 84° 26' 00" W
 84° 25' 00" W

Dedicated & Proposed Special Conservation Area Map

Compartment 9
 T33N, R01W, Sec. 4, 9, 16
 County: Cheboygan
 Unit: Pigeon River Country
 YOE: 2011
 Acres: 1,896 GIS Calculated
 Stand Examiner: Rick McDonald
 Map Revised: 2/26/2009
 Map Phase: Pre-review



- Legend**
- Miris Corners
 - Stand Boundary
 - Dedicated Special Conservation Areas**
 - Cold Water Streams
 - Natural Rivers Vegetative Buffer
 - Natural Rivers Zoning District
 - OI Special Conservation Areas
 - Potential Old Growth Stands
 - Non_Dedicated Natural Areas and National Natural Landmarks
 - Wildlife Research Areas
 - ▲ Campgrounds





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
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
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.
SCA	Potential Old Growth Areas	This category contains stands were identified for a broad range of reasons and were coded in the OI database as stand condition 8 as potential old growth (POG). Approximately 310,000 acres have been identified through the Operations Inventory (OI)/Compartment Review process. For stands in Year of Entry 2008 and forward, potential old growth is managed for the identified objective until it is: 1) vetted through the Biodiversity Conservation Planning Process (BCPP) and given a specific designation and objective (as an ERA, HCVA, or other type of SCA) and is released from the potential old growth designation; or 2) it is released from the potential old growth designation via the Compartment Review process.