



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 221

ENTRY YEAR: 2009
Compartment Acreage: 2,268
County: Mackinac

Revision Date: April 24, 2008

Stand Examiner: Ken Phillips

Legal Description: Sections 3, 26, 29, 30, 32 and 33 on Bois Blanc Island.

Management Goals: To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and Topography: Soils are generally shallow but they tend to be quite productive. Ridges from old beach fronts are commonly found near the shore of Lake Huron while interior portions away from the lake are typically quite flat.

Ownership Patterns, Development, and Land Use in and Around the Compartment: All of the land in sections 32 and 33 lie within the Bob-Lo-Gardens subdivision. Lands in section 3 lie within the Huron Shores subdivision. The State owns the vast majority of the lots within these subdivisions and we are actively purchasing additional lots as they become available during tax delinquent sales. All of the State land in section 30 is being considered for an exchange.

Unique, Natural Features: Many rare or threatened animal species occur either within or nearby this compartment including the Eagle, Osprey, Loon, Red-shouldered hawk and the Massasuga rattlesnake.

Archeological, Historical, and Cultural Features: An old school site is located in Section 33 (see stand #403).

Special Management Designations or Considerations: All of the State-owned land in Section 26 has been legislatively dedicated as the Snake Island/Mud Lake Natural Area.

Watershed and Fisheries Considerations: Many portions of the compartment border upon the shores of Lake Huron or one of several small inland lakes. Sucker Creek and many smaller unnamed streams flow through this compartment. These streams have historically been impounded by beaver activity.

Wildlife Habitat Considerations: This compartment contains mostly cedar areas with a few upland areas. Stand 64 is going to be treated to increase structural diversity and stand 63 will be cut to encourage early successional species. The compartment adjoins Echo and Duncan Lake which supports some waterfowl species.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel, thin to discontinuous in the island center. There is insufficient information to determine the glacial drift thickness. The Devonian Bois Blanc Formation subcrops below the glacial drift. The Bois Blanc could be/is quarried for stone. Sand and gravel pits are located in the area and potential is good. The nearest oil and gas production, the Niagaran Reef Trend, is located many miles to the south. There is no known oil and gas potential in the area.

Vehicle Access: There is limited vehicle access to most portions of the compartment. County maintained roads provide the primary vehicle access with the lesser developed State Forest trails suitable only for use by ORV's. There is no legal access to any of the State-owned land in section 30.

Survey Needs: None required for current management prescriptions.

Recreational Facilities and Opportunities: No recreational facilities currently exist. Bois Blanc Township recently acquired approximately six acres of land from the State in section 3 along the shore of Lake Mary. The intent is for the Township to operate a public day use area on this land that would include a floating fishing pier.

Fire Protection: This compartment essentially has no highly volatile fuel types. A limited road system would, however, make response to a remote wildland fire extremely difficult.

Additional Compartment Information: A fenced deer enclosure is located in section 32 (see stand #50).

- **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

GAYLORD FOREST MGT UNIT

MACKINAC COUNTY

COMPARTMENT: 221

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									35										35
Black Spruce									13										13
Cedar									1315	98									1413
Grass	10																		10
Lowlnd Brush	101																		101
Marsh	47																		47
Mx Swmp Cnfr									77	76									153
Non Stocked	1																		1
Paper Birch										124									124
Red Pine										13									13
Rock	4																		4
Spruce Fir									48										48
Upland Hdwds									56									221	277
Water	29																		29
Total	192								1544	311								221	2268

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Individual Compartment Report

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MACKINAC COUNTY

COMPARTMENT: 221

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	35																										35
S Black Spruce		13																									13
C Cedar				1413																							1413
G Grass					10																						10
L Lowlnd Brush									101																		101
N Marsh											47																47
Q Mx Swmp Cnfr												153															153
X Non Stocked													1														1
B Paper Birch															124												124
R Red Pine																13											13
K Rock																	4										4
F Spruce Fir																			48								48
M Upland Hdwds																								277			277
Z Water																									29		29
Total	35	13		1413	10				101	47	153	1		124	13	4		48						277	29	2268	

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

MACKINAC COUNTY

COMPARTMENT: **221**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	21259 Cds	Hardwood	812 Cds
Hardwood	726 Mbf	Hardwood	74 Mbf
Softwood	36446 Cds	Softwood	128 Cds
Softwood	75 Mbf	Sum CutVol	1088 Cds
Sum TotVol	59307 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	
2268		70	

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 221 Entry Year: 2009

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	fdf Status
63	A6	29	78	60	aspen (upland)	mature	final harvest	2		
comnts Fmd : TRANSITIONAL STAND OF OVER-MATURE ASPEN. SCATTERED AREAS OF BLOWDOWN THAT ARE COMING BACK INTO HARDWOOD REGENERATION. OF ALL OF THE STANDS IN THIS ENTIRE COMPARTMENT, THIS ONE WOULD LEND ITSELF BEST TO EVENAGED ASPEN MANAGEMENT. ACCESS TO THE STAND IS UNCERATIN, HOWEVER, SINCE WE WOULD HAVE TO OBTAIN PERMISSION TO CROSS MULTIPLE PRIVATELY OWNED PARCELS. RUSS RIKER HAS INDICATED THAT HE COULD OBTAIN THE REQUIRED PERMISSIONS SO I WILL GO AHEAD AND PRESCRIBE. REGENERATION SHOULD COME BACK TO A MIX OF ASPEN, HARDWOOD AND FIR. THERE MAY BE ONE SMALL PRIVATELY OWNED LOT WITHIN THIS STAND AND WE WILL NEED TO DETERMINE THAT LOCATION DURING SALE PREPARATION. ***RETENTION - LEAVE SOME SCATTERED UNCUT ISLANDS. I WOULD SUGGEST POSITIONING THESE ISLANDS FAIRLY CLOSE TO THE BOUNDARY OF STAND #64 TO HELP PROTECT THEM FROM WINDTHROW. WE SHOULD ALSO LEAVE AN ISLAND WHERE THE PRIVATELY OWNED LOT IS SITUATED***										
64	M9	41		70	northern hardwood	unevenaged	selection	2		
comnts Fmd : NICE STAND OF LARGER DIAMETER NORTHERN HARDWOODS. QUITE A BIT OF BEECH WHICH WILL PROBABLY GET BEECH BARK DISEASE IN THE NEAR FUTURE. THIS COULD BE THINNED IF WE HAD A MARKET AND IF WE COULD GAIN ACCESS TO IT ACROSS MULTIPLE PRIVATE PARCELS. RUSS RIKER HAS INDICATED THAT HE COULD OBTAIN THE REQUIRED PERMISSIONS SO I WILL GO AHEAD AND PRESCRIBE. ***RETENTION - LEAVE A REPRESENTATION OF ALL CURRENT SPECIES IN THE THINNED STAND. BEECH SHOULD BE TARGETED HEAVILY FOR REMOVAL, HOWEVER, DUE TO THE THREAT OF BEECH BARK DISEASE***										
Total Acres.....		70								

**Proposed Treatments
With Limiting Factors**

Compartment: 221

Entry Year: 2010

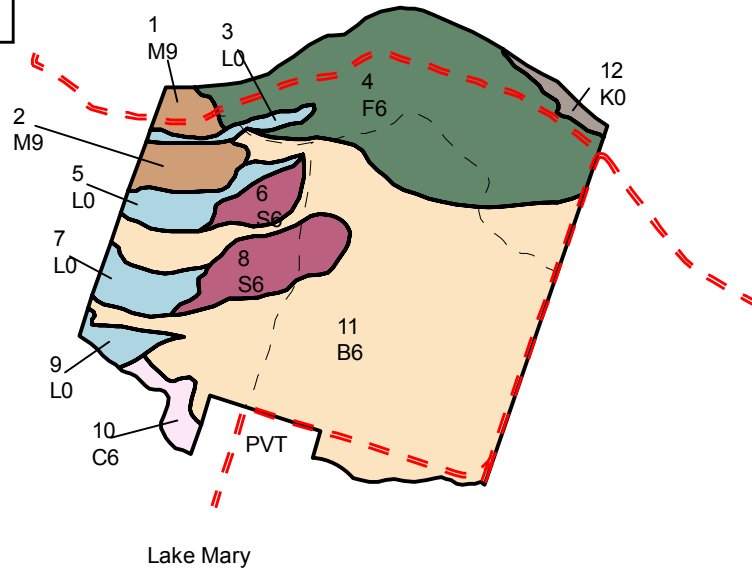
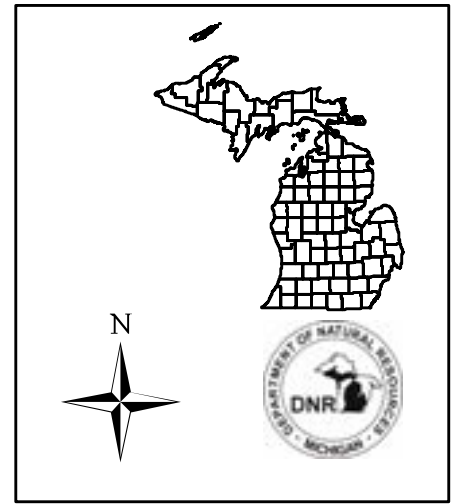
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

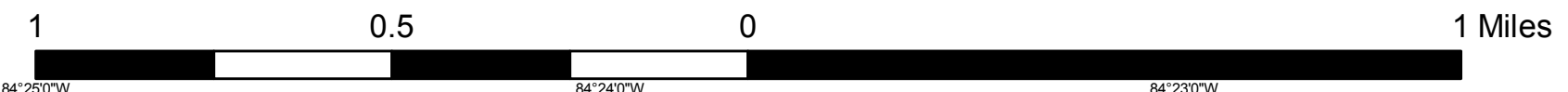
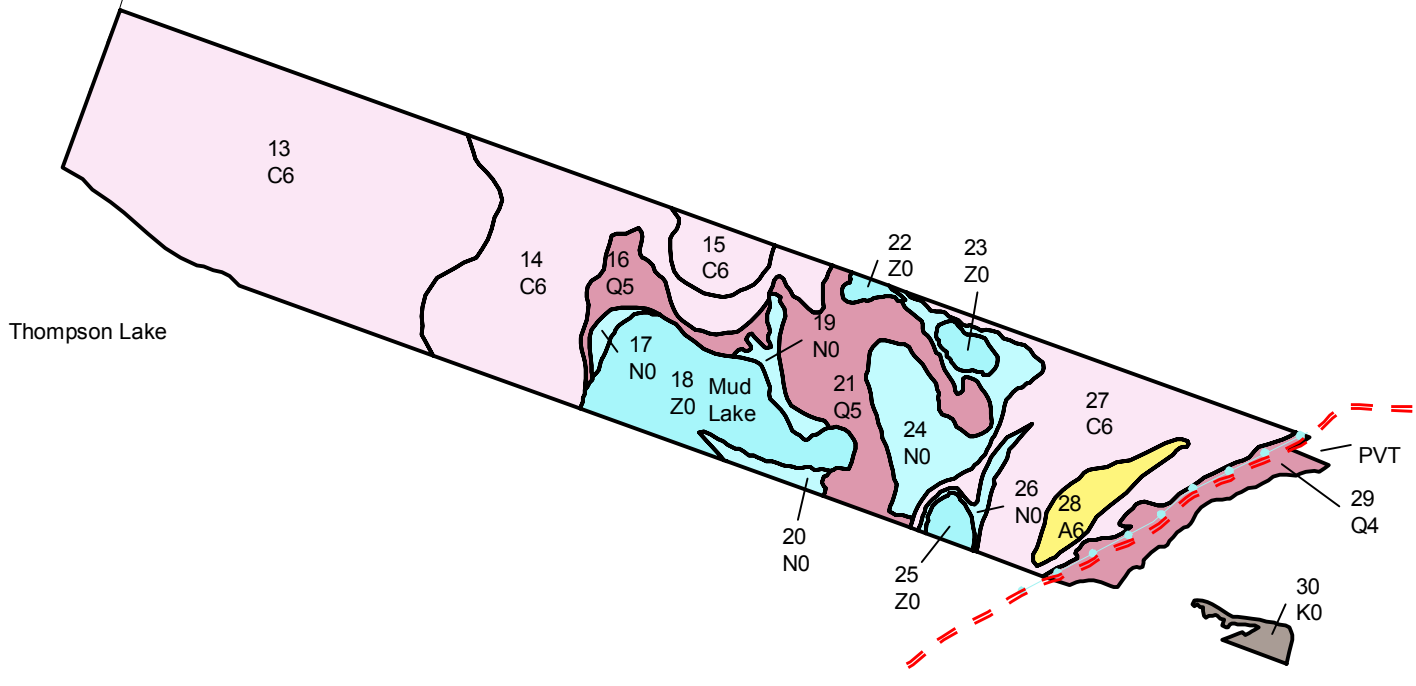
Total Acres..... 0

Covertime & Treatment Map

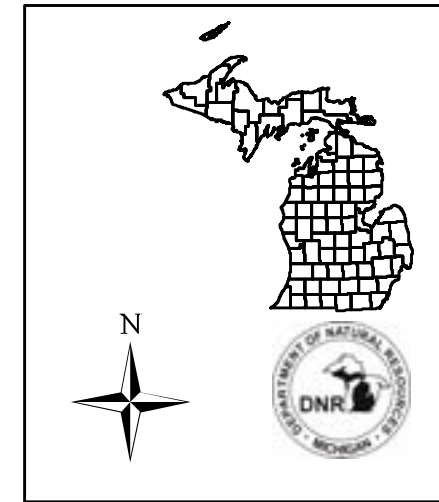
Compartment 221
 Bois Blanc Island
 Sections 3, 26, 29, 30, 32 and 33
 County: Mackinac
 Unit: Gaylord
 YOE: 2009
 Acres: 2,268 GIS Calculated
 Stand Examiner: Ken Phillips
 Map Revised: 6/05/2008
 Map Phase: Pre-Review



Legend	
	County Gravel Roads
	Poor Dirt Roads
	Powerlines
	Water Features
	Stand Boundary
	A - Aspen
	B - Paper Birch
	C - Northern White Cedar
	F - Upland Spruce or Fir
	G - Grass
	K - Rock
	L - Lowland Brush
	M - Northern Hardwoods
	N - Marsh
	Q - Mixed Swamp Conifers
	R - Red Pine
	S - Black Spruce Swamp
	X - Non-Stocked
	Z - Water
	100 - Final Harvest
	800 - Selection



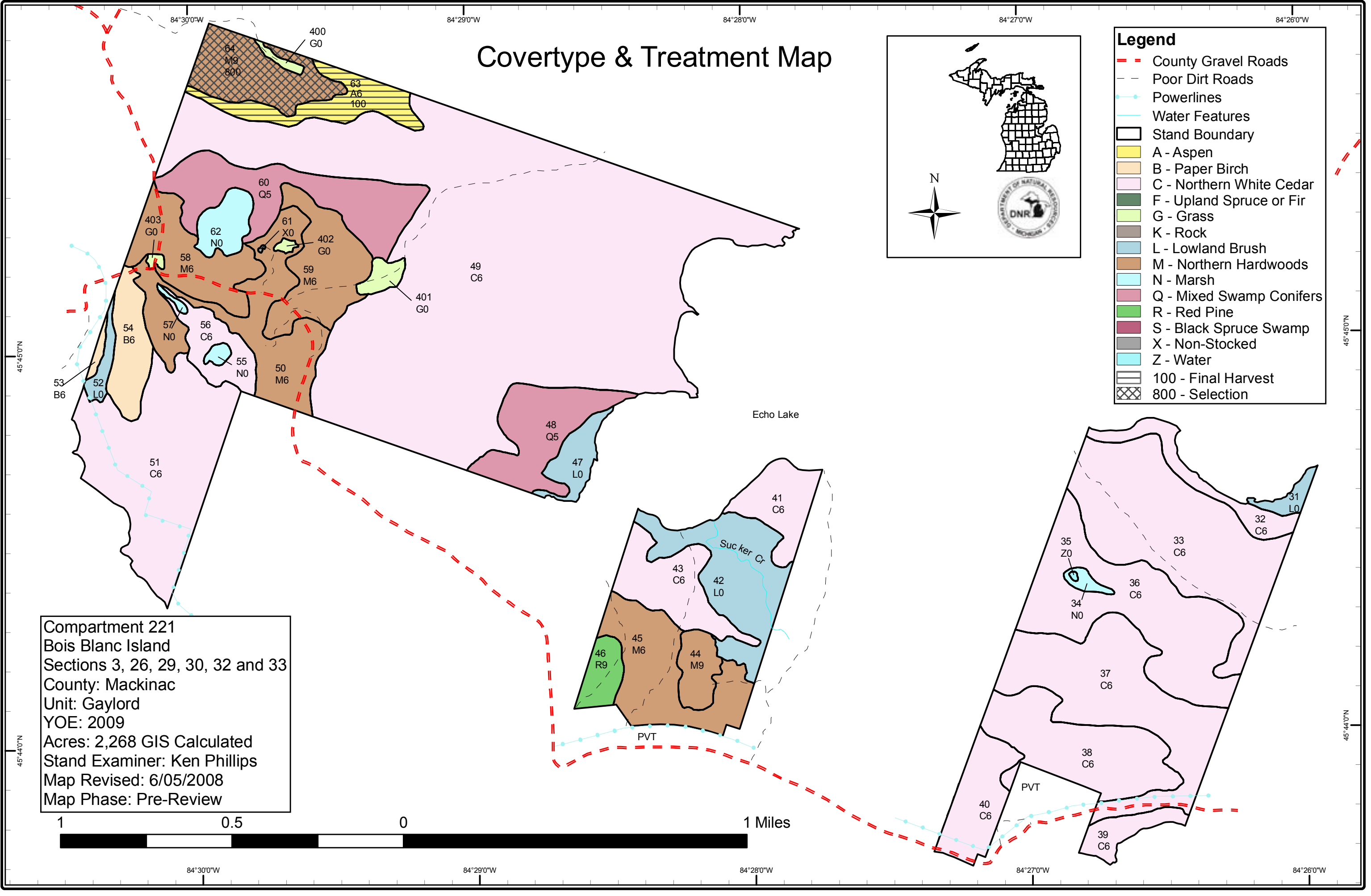
Covertypes & Treatment Map



Legend

- - - County Gravel Roads
- - - Poor Dirt Roads
- - - Powerlines
- Water Features
- Stand Boundary
- A - Aspen
- B - Paper Birch
- C - Northern White Cedar
- F - Upland Spruce or Fir
- G - Grass
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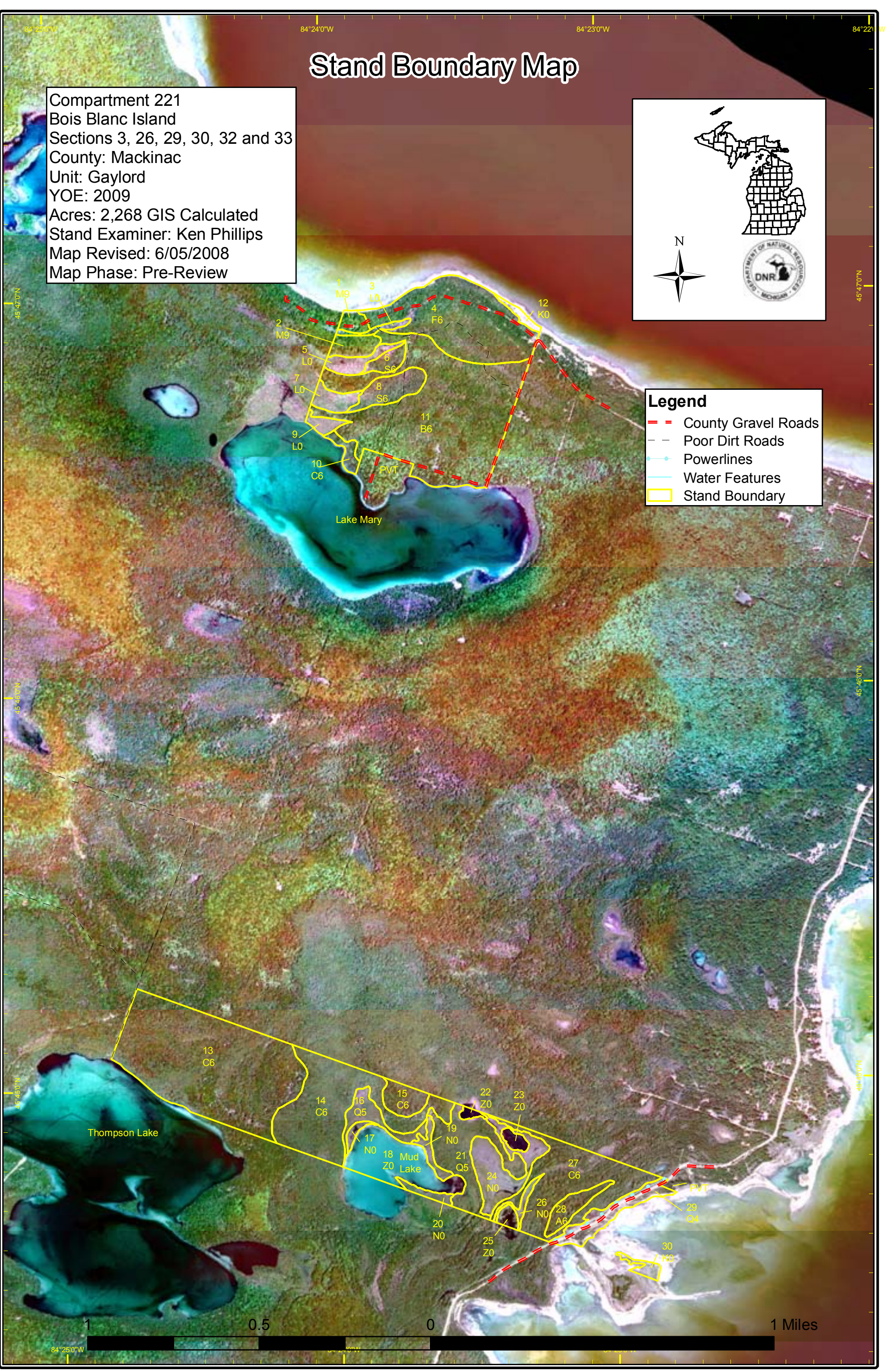


Stand Boundary Map

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- Legend**
- County Gravel Roads
 - - - Poor Dirt Roads
 - Powerlines
 - Water Features
 - Stand Boundary



Stand Boundary Map

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Legend

- County Gravel Roads
- - - Poor Dirt Roads
- Powerlines
- Water Features
- Stand Boundary

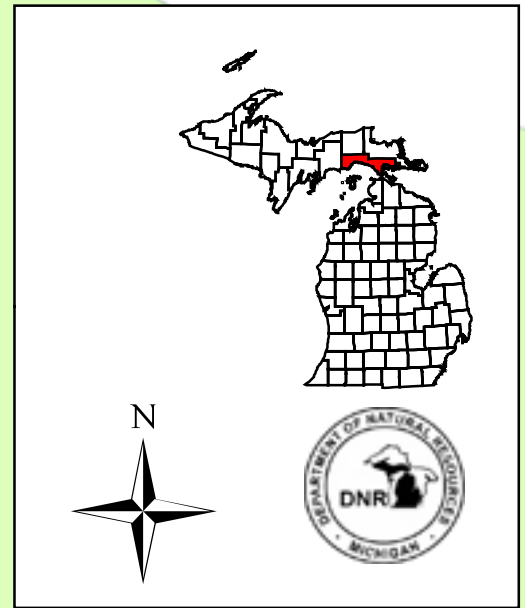
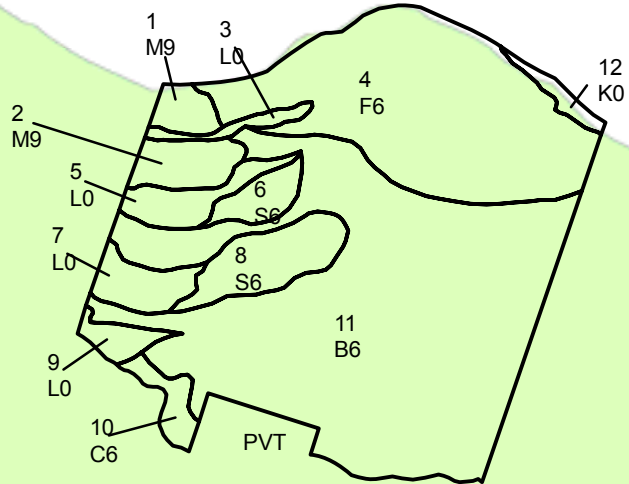


45°44'0"N 84°30'0"W 84°29'0"W 84°28'0"W 84°27'0"W 84°26'0"W 45°44'0"N

1 0.5 0 1 Miles

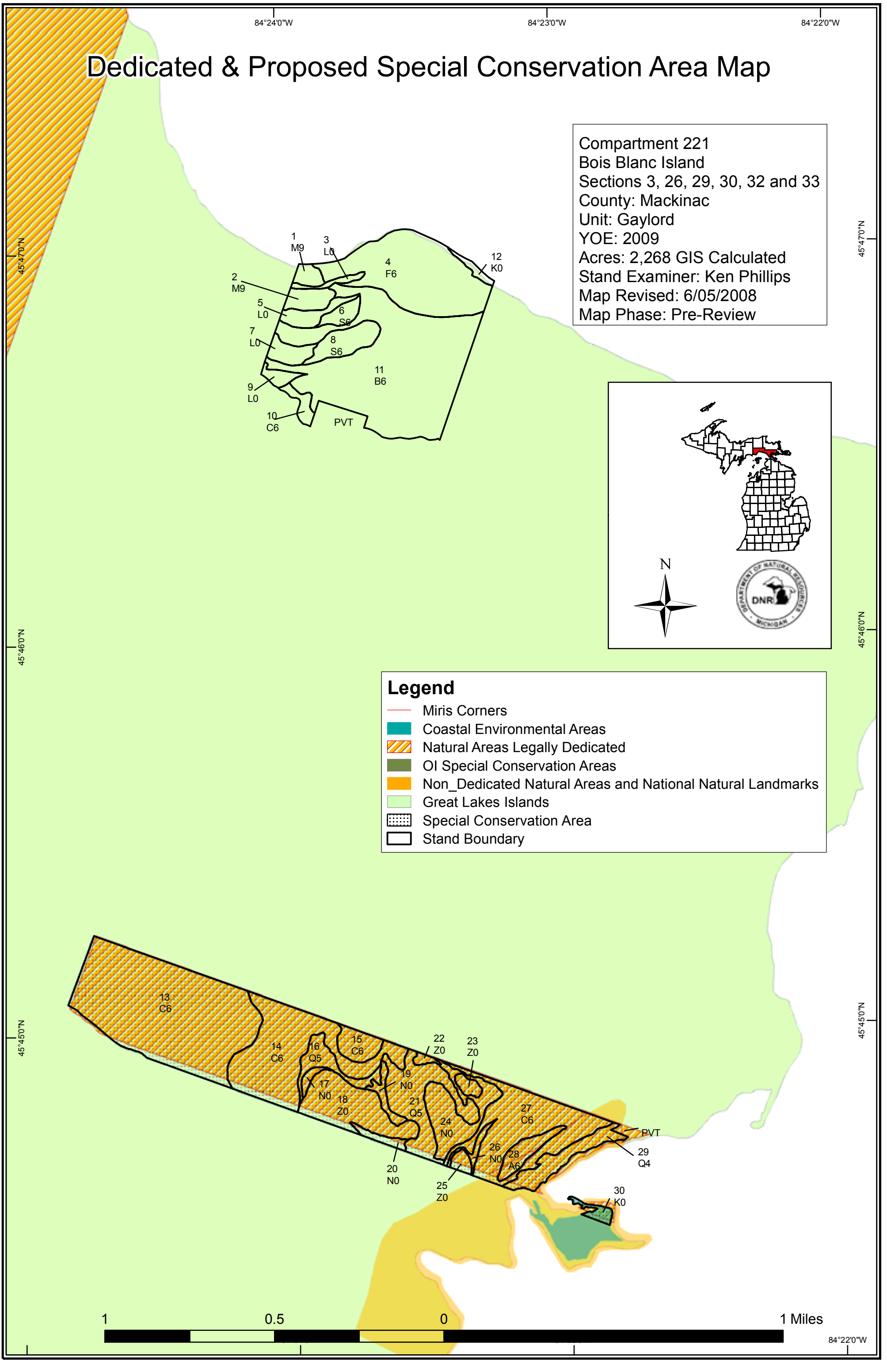
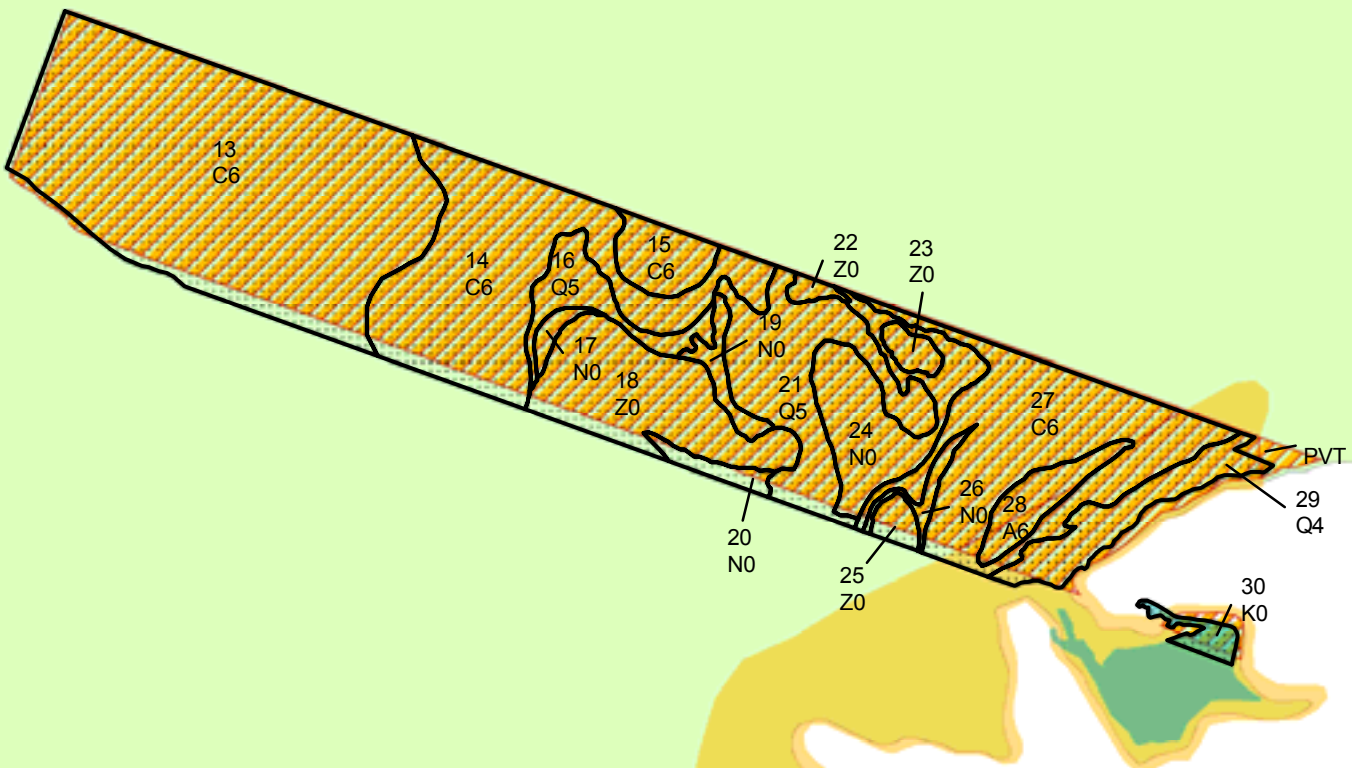
Dedicated & Proposed Special Conservation Area Map

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 Sections 3, 26, 29, 30, 32 and 33
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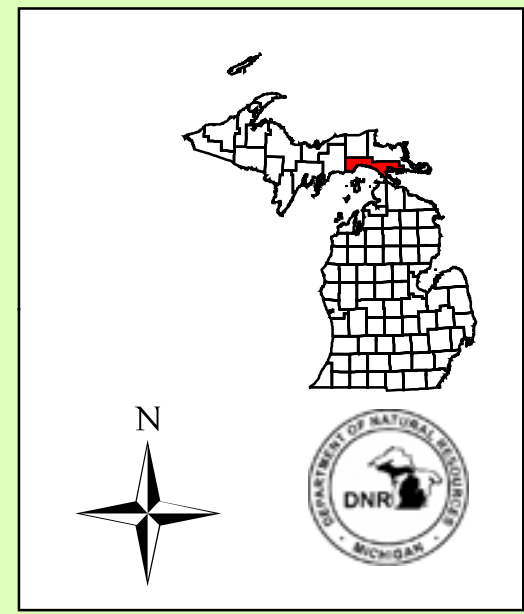
Legend

-  Miris Corners
-  Coastal Environmental Areas
-  Natural Areas Legally Dedicated
-  OI Special Conservation Areas
-  Non_Dedicated Natural Areas and National Natural Landmarks
-  Great Lakes Islands
-  Special Conservation Area
-  Stand Boundary



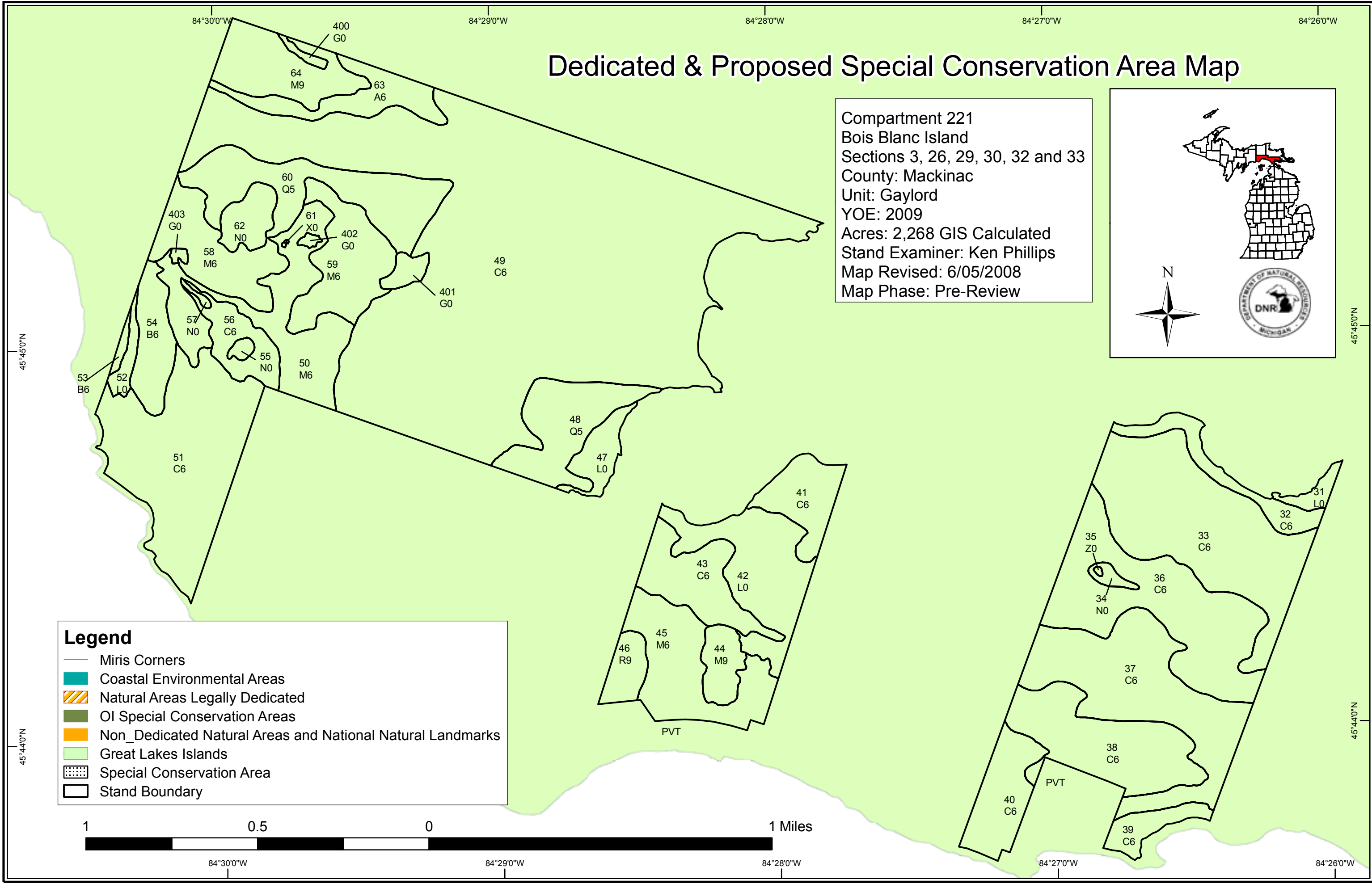
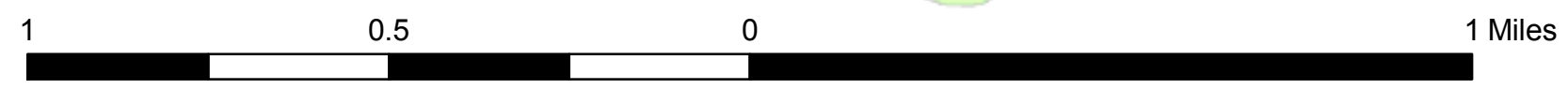
Dedicated & Proposed Special Conservation Area Map

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 County: Mackinac
 Unit: Gaylord
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Legend

- Miris Corners
- Coastal Environmental Areas
- Natural Areas Legally Dedicated
- OI Special Conservation Areas
- Non_Dedicated Natural Areas and National Natural Landmarks
- Great Lakes Islands
- Special Conservation Area
- Stand Boundary





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
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.
HCVA	Coastal Environmental Areas	The public designation process is defined by Part 323, Shorelands Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). This is an inactive program with no new areas currently under consideration by the DEQ.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
SCA	Great Lakes Islands	Great Lakes Islands provide significant habitat for numerous species, including many rare plants and animals, several of which are endemic or largely restricted to the Great Lakes region. Due to their isolation, islands provide good examples of many Great Lakes-associated natural communities and ecosystems, and thus have potential to provide insights for understanding the consequences of human disturbance on the increasingly fragmented ecosystems of the mainland.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.