



**GAYLORD FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT: 26

ENTRY YEAR: 2010
Compartment Acreage: 1,877
County: Otsego

Revision Date: 4/1/2008

Stand Examiner: Ric Barta

Legal Description: T30N R2W Sec. 28, 29, 30, 31, 32

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: Terrain is flat to gently rolling. The major soil type is Rubicon-Grayling sand with a small percent of Roselawn-Rubicon sand in Section 28.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State ownership is somewhat fragmented, with all sections containing some amount of private. Oil and gas development is extensive. Private land is mostly second growth with some residential and includes the CP powerline.

Unique, Natural Features: None known

Archeological, Historical, and Cultural Features: Old railroad grades are evident in Sections 28, 29 & 30.

Special Management Designations or Considerations: None.

Watershed and Fisheries Considerations: This compartment is within the Au Sable River watershed, and contains a portion of Turtle Creek upstream of Turtle Lake. Turtle Creek is a warm water stream. Prescribed management activities are appropriate for the protection of this waterbody.

Wildlife Habitat Considerations: This compartment contains both upland and lowland areas and it receives a considerable amount of hunting pressure. The area contains deer, hare, grouse, woodcock, turkey, and bear. The lowland swamp area has a lot of snowshoe hare in it. Habitat is going to be increased in this area with the cutting of stand 31 to maintain early successional habitat near this swamp. Trees will also be left and cut in five years to increase horizontal hare cover. Stand 23 and 64 are going to be cut and replanted to red pine and oak to provide a mixed coniferous/deciduous stand. There is a considerable amount of younger aspen in this compartment, so stands 7 and 8 were not cut this time around but will be prescribed in the next review.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 800 and 1,000 feet. The Mississippian Coldwater Shale subcrops below the glacial drift. The Coldwater does not have an economic use. The nearest gravel pit is located four miles to the west, but there may be some potential on the uplands. The compartment has been developed for Antrim Shale gas production and is also located in the Niagaran reef trend. All State lands are leased and in production.

Vehicle Access: Good access everywhere due to gas roads.

Survey Needs: None

Recreational Facilities and Opportunities: Snowmobile trail in Sections 28 & 29; ORV trail in Sections 28, 29 & 30.

Fire Protection:

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**

6/5/2008 9:33:19 AM

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

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

OTSEGO COUNTY

COMPARTMENT: 26

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		264		152		290												60	766
Bog or Marsh	3																		3
Grass	69																		69
Jack Pine						32													32
Mx Swmp Cnfr									103										103
Red Pine					79	281				3									363
Upland Brush	179					206													385
Upland Hdwds					6														6
White Pine		28			53	49												20	150
Total	251	292		152	138	858			103	3								80	1877

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

OTSEGO COUNTY

COMPARTMENT: **26**

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	755															11											766
V Bog or Marsh			3																								3
G Grass					69																						69
J Jack Pine																32											32
Q Mx Swmp Cnfr												103															103
R Red Pine																363											363
U Upland Brush																								385			385
M Upland Hdwds																								6			6
W White Pine																										150	150
Total	755		3		69							103				406								385	6	150	1877

MACKINAW STATE FOREST

GAYLORD FOREST MGT UNIT

OTSEGO COUNTY

COMPARTMENT: **26**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	5385 Cds	Hardwood	549 Cds
Hardwood	32 Mbf	Hardwood	4 Mbf
Softwood	9763 Cds	Softwood	403 Cds
Softwood	570 Mbf	Sum CutVol	960 Cds
Sum TotVol	16352 Cds		
Total Cmpt Acres		Acres Proposed For Cut.....	75
	1877		

GAYLORD FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 26

Entry Year: 2000

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
23	J6	32	48	45	red pine	immature	final harvest	1	planting		
comnts Fmd : Previous comment: JACK PINE PLANTED 1100 PER ACRE 2-0 STOCK VERY POOR QUALITY. 1998 comment: Too young to cut. Contains an inclusion of aspen, red maple and white birch poles. 2008: Low site index and poor quality. Final harvest with Stand 64 with no retention. Replant to red pine and acorns. No application of herbicide to aspen or red maple. 99-2 is cherry and white birch. Regeneration of a mixed stand of any species is acceptable.											
31	A6	32	48	50	aspen (upland)	sparse	final harvest	1			
comnts Fmd : TREE CUTTER SITE 1960 ASPEN POOR QUALITY (PREVIOUS COMMENT). 1998 comment: Split out of Stand 4. 2008: Scattered clones of A6 and patches of U, A2 and A3. Final harvest and push into Stand 19 a chain or so to harvest aspen there and include some conifers, which will be protected during the sale and dropped a few years later by WD to create cover for hares.											
64	A5	11	49	50	red pine	low quality	final harvest	1	planting		
comnts Fmd : 1998 comment: Some red maple and some aspen clones. 2008: Old U type with a couple acres of aspen/oak/red maple on the south end. Poor quality. Save oak, but no other retention. Treat with Stand 23. Then replant to red pine with acorns. No herbicide on aspen or red maple. Regeneration of a mixed stand of any species is acceptable.											
Total Acres.....		75									

**Proposed Treatments
With Limiting Factors**

Compartment: 26

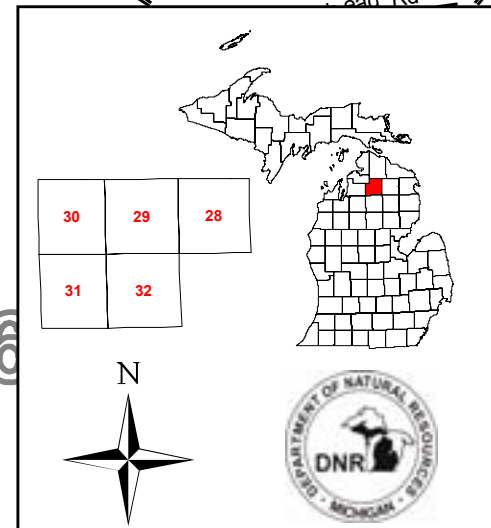
Entry Year: 2010

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

TREATMENT LIMITING FACTORS:

Total Acres..... 0

Compartment 26
 T30N, R02W, Sec. 28-33
 County: Otsego
 Unit: Gaylord
 YOE: 2010
 Acres: 1,877 GIS Calculated
 Stand Examiner: Ric Barta
 Map Revised: 6/05/2008
 Map Phase: Pre-Review



19 Covertypes & Treatment Map

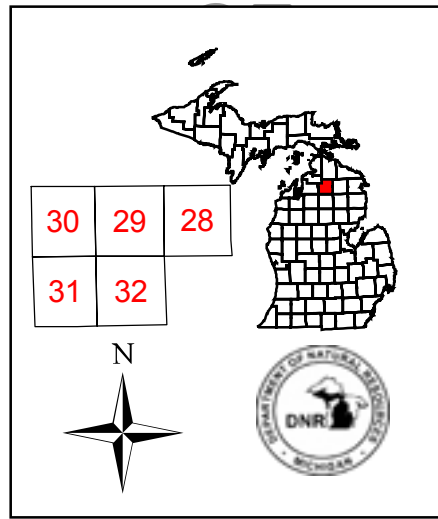
Legend



- Miris Corners
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- Pipelines
- Trails
- Water Features
- ORV Trails
- Snowmobile Trails
- Stand Boundary
- A - Aspen
- G - Grass
- J - Jack Pine
- M - Northern Hardwoods
- Q - Mixed Swamp Conifers
- R - Red Pine
- U - Upland Brush
- V - Bog or Muskeg
- W - White Pine
- 100 - Final Harvest
- 111 - Final Harvest/Planting/Hand Tools

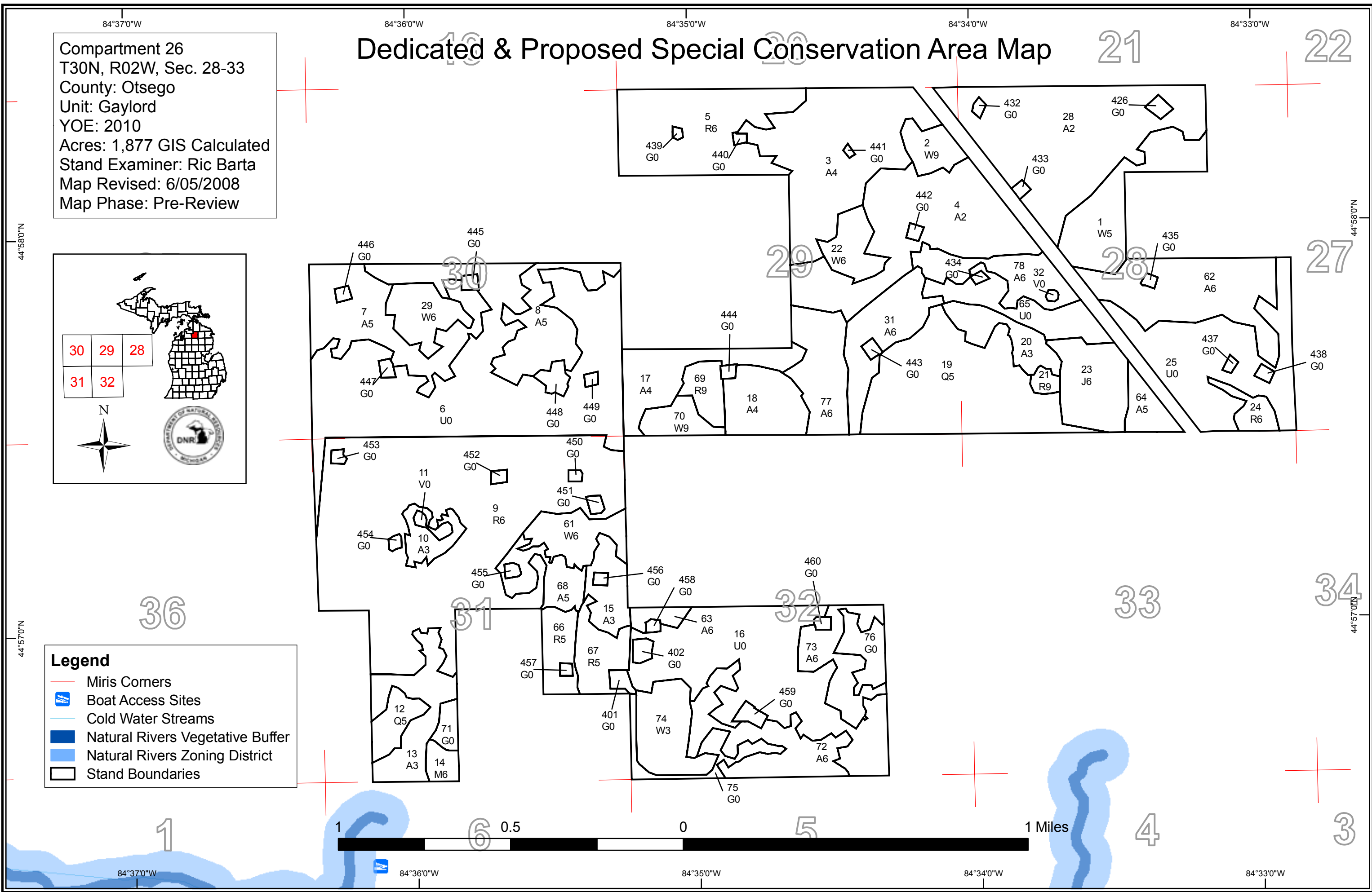
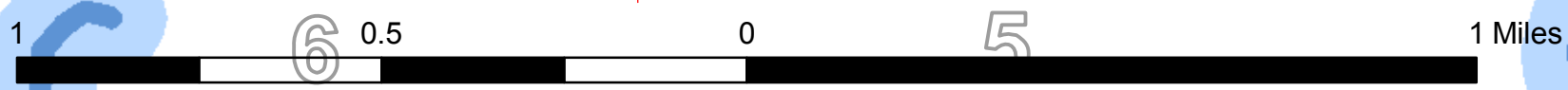
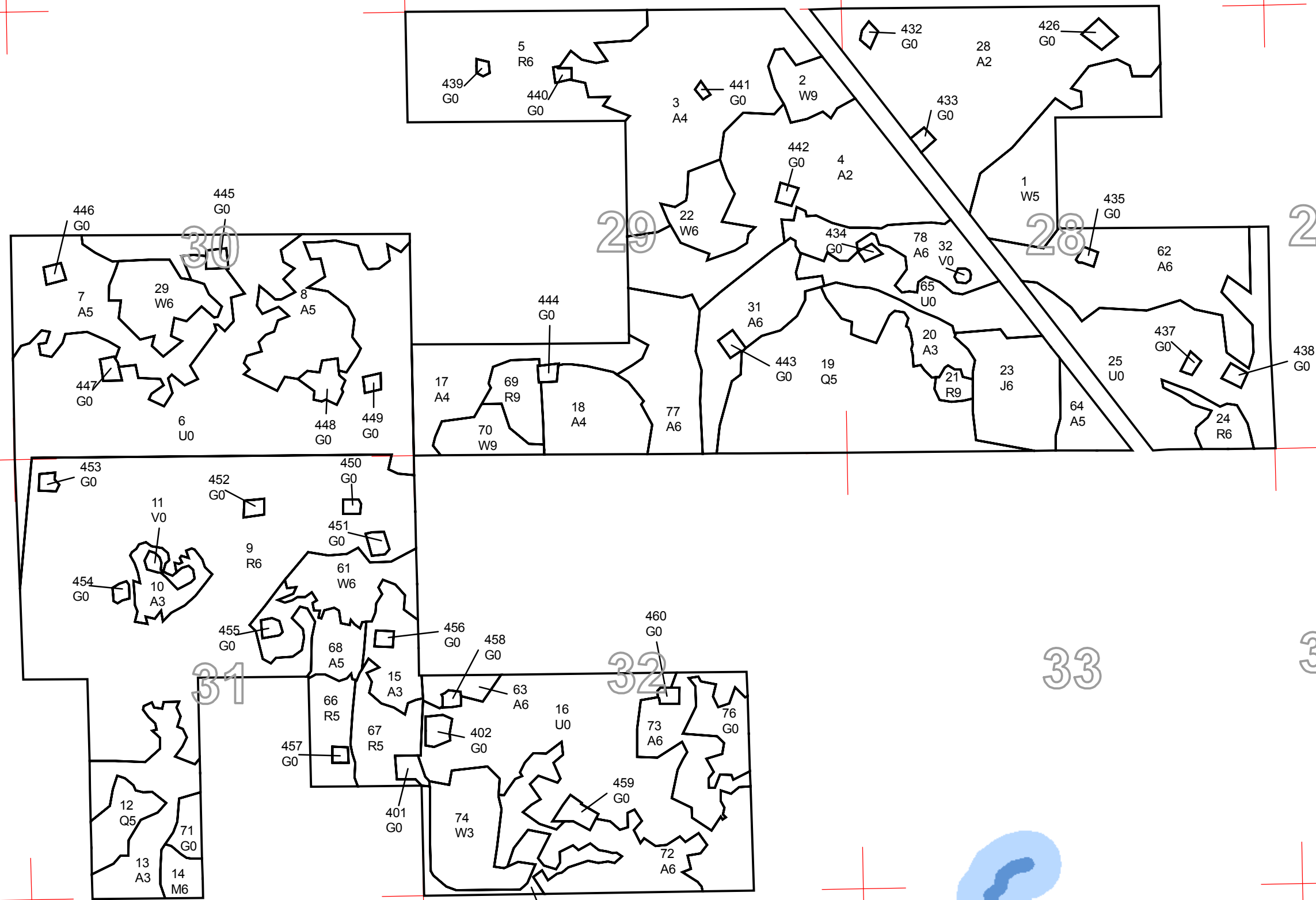


Compartment 26
 T30N, R02W, Sec. 28-33
 County: Otsego
 Unit: Gaylord
 YOE: 2010
 Acres: 1,877 GIS Calculated
 Stand Examiner: Ric Barta
 Map Revised: 6/05/2008
 Map Phase: Pre-Review

Dedicated & Proposed Special Conservation Area Map



- Legend**
-  Miris Corners
 -  Boat Access Sites
 -  Cold Water Streams
 -  Natural Rivers Vegetative Buffer
 -  Natural Rivers Zoning District
 -  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
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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
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.