



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52038

Entry Year 2020

Acreage: 216

County Charlevoix

Management Area: Chandler Hills

Revision Date: 2018-03-07

Stand Examiner: Matthew Foster

Legal Description:

T33N R06W Section 10 and 11

Identified Planning Goals:

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

Soil and topography:

Terrain is mostly hilly, steep in some places. Soils are Leelanau-Rubicon loamy sands and Kalkaska sand. A small wet area at the north end of the compartment is Tawas muck.

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

This compartment is surrounded by private land ownership, the south line is adjacent to Boyne City School Forest property.

Unique Natural Features:

Old growth forest type near the lakeshore.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Walloon Lake Northern Mesic Forest is an Ecological Reference Area and is located in stands 1, 2, and a portion of stand 3.

Watershed and Fisheries Considerations:

This compartment has approximately 3,500 ft of water frontage on Walloon Lake.

Wildlife Habitat Considerations:

This area is primarily northern hardwoods and a portion of it adjacent to the lakeshore has old growth features including large diameter trees and significant dead wood both standing and on the ground. These features are beneficial for wildlife species like Red-shouldered hawk and will be maintained by not harvesting near the lake.

Mineral Resource and Development Concerns and/or Restrictions

Sand & gravel pits are not located in the area, but there is good sand potential within the compartment. There has been sparse hydrocarbon exploration in this area and no development. There is limited potential for Antrim Shale gas, as the formation is thin to absent here. Oil & gas potential is considered minimal at this time. There is currently no active mineral leasing activity in the immediate area.

Vehicle Access:

Good access to upland areas.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

This compartment has Walloon Lake frontage.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

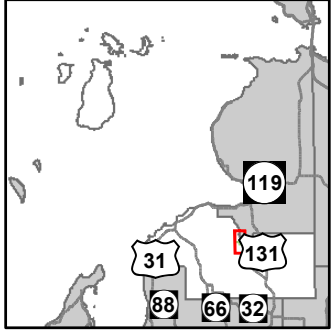
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

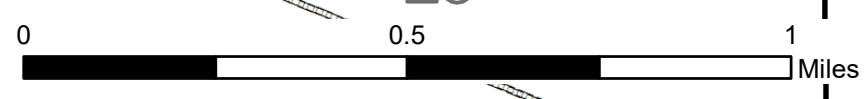
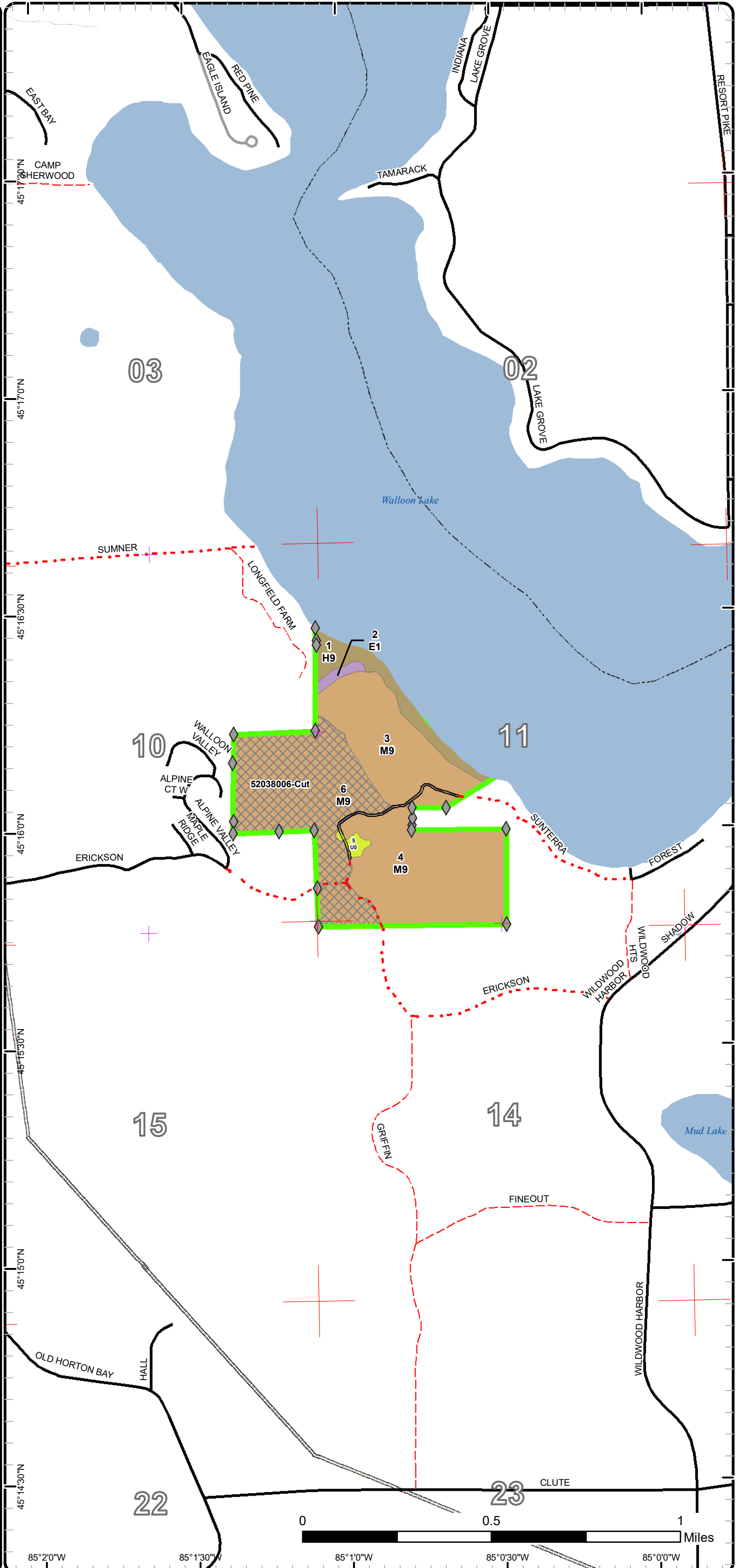
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 38
 T33N, R06W, Sec. 10, 11
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2020
 Acres: 216 GIS Calculated
 Examiner: Matthew Foster
 Map Revised: 10/1/2018
 Map Phase: Post-Review



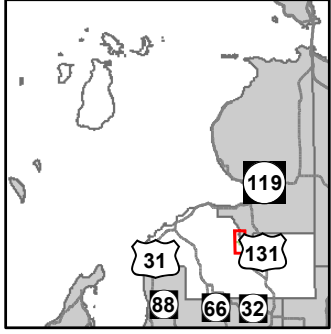
- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers All
- Pipeline
- Compartment Boundary
- Selection (Group, Single Tree)
- 411 - Northern Hardwood
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 330 - Low Density Trees
- Lakes



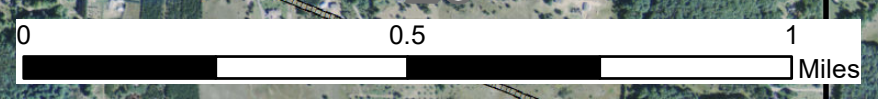
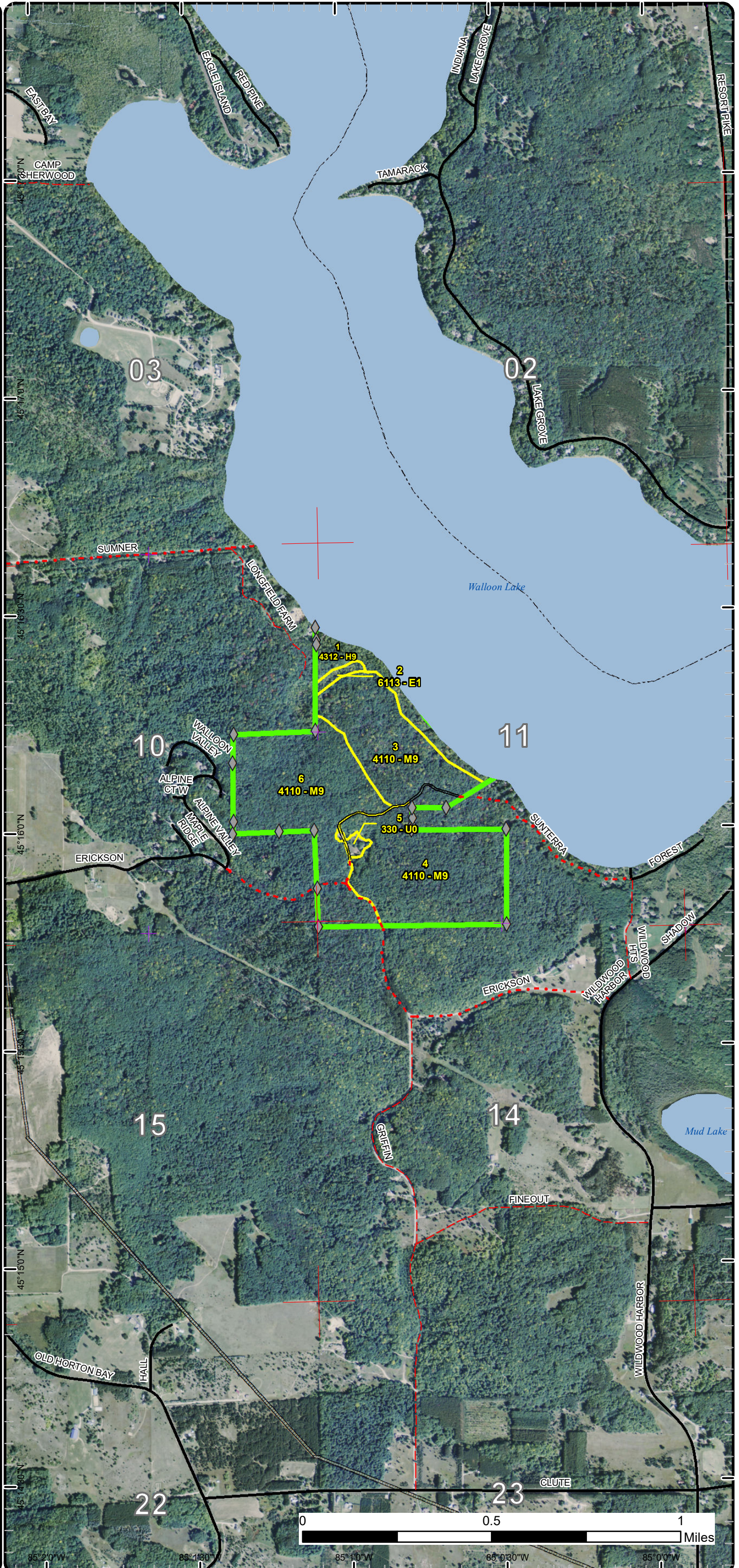
85°2'0"W 85°1'30"W 85°1'0"W 85°0'30"W 85°0'0"W

Stand Boundary Map

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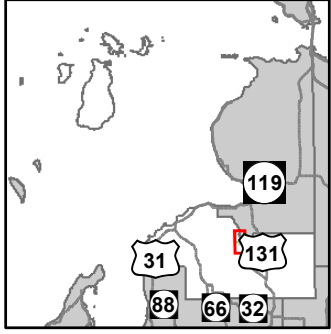
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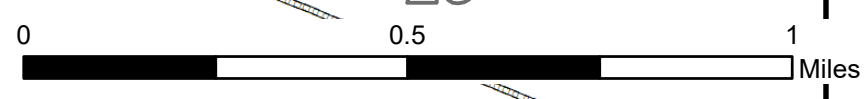
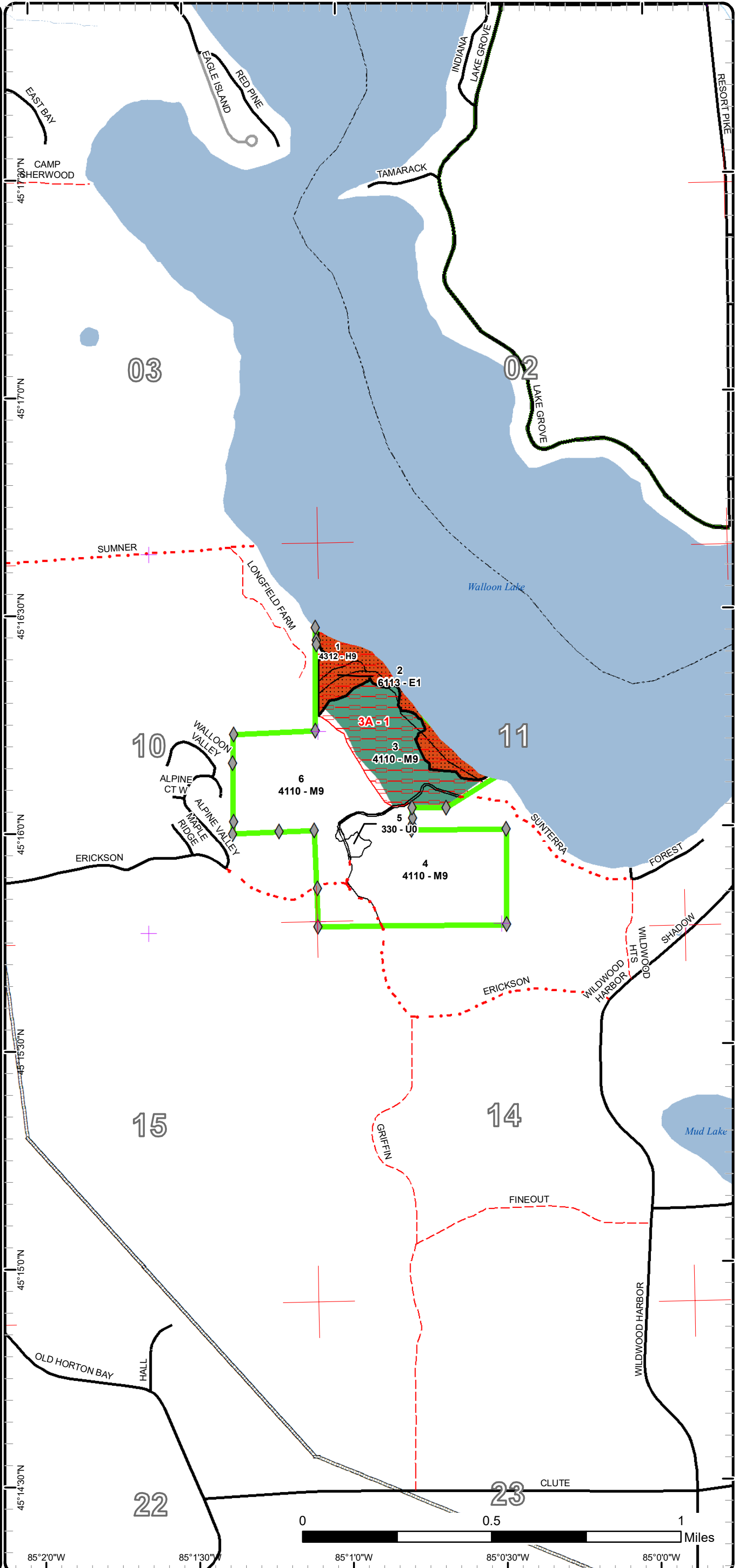
85°20'W 85°13'W 85°10'W 85°0'30"W 85°0'0"W

Special Conservation Areas & Site Conditions Map

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- - - Intermittent Stream
- Lake/Pond
- Lakes and Rivers All
- - - Pipeline
- Compartment Boundary
- Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Natural Beauty Roads
- Cold Water Streams
- Cold Water Lakes
- Habitat Corridor
- Possible Type 2 Old Growth



85°2'0"W 85°1'30"W 85°1'0"W 85°0'30"W 85°0'0"W



Age Class

	Non-Forest	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+	Uneven-Aged	Total
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	0	18
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Deciduous	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	68	0	0	0	0	0	0	124	192
Total	2	0	0	0	2	0	0	0	0	0	68	0	0	0	0	0	19	124	214



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 38

Total Compartment Acres: 216

Commercial Harvest - 75
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood		0	75	0	0	0	0	0	0	0	75
	Total	0	75	0	0	0	0	0	0	0	75

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		75	0	0	0	0	0	0	0	0	75
Next Step		0	0	0	0	0	75	0	0	0	75
	Total	75	0	0	0	0	75	0	0	0	150



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
6 52038006-Cut	75.2	4110 - Sugar Maple Association	Sawtimber Well	76	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Thin stand down to 80 BA, remove all beech except any that may look resistant to BBD. Create regeneration gaps, 1 per 5 acres with a minimum
Specs: 100ft diameter. Exclude any areas dense with hemlock.

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable A mix of hardwood species that resembles the composition of the parent stand.
Regen:

Other May want to consider excluding south of Erickson Road, this portion of the stand has a good amount of dead ash falling over.
Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment
Acreage Proposed: 75.2**

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 38

Matthew Foster : Examiner

Year of Entry: 2020

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

3A

18	0	0	18	Hemlock	18
2	2	0	0	Low-Density Trees	
2	0	0	2	Lowland Deciduous	2
193	144	0	49	Northern Hardwood	49
216	146		70	Total Forested Acres	70
	68%		32%	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.*

Site No.	Dominant Site Cond	Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		3A: Conservation Values incompatible with harvest at this time	70	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								



Report 5 – 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
	Habitat Areas or Corridors	Habitat Corridor	Proposed SCA	38
<p>Comments Maintain SCA Coding for Habitat Area. Intended for passive management.</p>				



Report 6 – 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.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	18.5	206	141-170	This stand was surveyed by MNFI in 2006 and is part of an ERA, Old Growth Mesic Northern Forest. Neat stand with large diameter hemlock, sugar maple, and beech along the coast of Walloon Lake. Has wet areas at the north end near stand 2.
2	6113 - Lowland Maple	Sapling Poor	2.4	31	Immature	Open wet area with scattered dead ash, maple, and birch.
3	4110 - Sugar Maple Association	Sawtimber Well	49.2	85	111-140	Average BA 118 from 7 plots. Hills and valleys that lead down into stand 1 and Walloon Lake. Beech is over mature and dying out and blowing over. Portions of this stand are part of an ERA with stand 1, Mesic Northern Forest.
4	4110 - Sugar Maple Association	Sawtimber Well	68.4	96	81-110	Majority of stand thinned in 1994, ash is all dead and falling over. Lots of beech in the understory, east end is hilly. BA is variable, stand average is 110 from 13 plots.
6	4110 - Sugar Maple Association	Sawtimber Well	75.2	76	111-140	Was prescribed last YOE but harvest never occurred? A thinning would help put growth on the crop trees, a couple pockets of hemlock found. South end has a good amount of dead ash blowing over. West half of stand doesn't have much regeneration, east half is mostly beech. Average BA for stand is 127 from 14 plots.



Stand	Cover Type	Acres	Managed Site	General Comments:
5	330 - Low-Density Trees	2.2	No	Open area with scattered maple and cheery, edges filling innwith maple saplings