Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41097
Entry Year 2025
Acreage: 429
County Delta
Management Area: Escanaba Lake and Till Plain

Stand Examiner: Adam Petrelius

Legal Description:

T38N R18W Sections 4-6

Identified Planning Goals:

The main goal in this compartment is to conduct multiple resource management for current and future generations. It lies within the Lake Michigan Shoreline Management Area. Vegetative management in the Lake Michigan Shoreline Management Area
will emphasize protection of the unique character of the area and all of the threatened, endangered, and special concern species while providing recreational opportunities, timber products and wildlife habitat.

Soil and topography:

The topography in this compartment is mostly flat; the soils are mainly shallow layers directly over limestone bedrock. The soil types are mainly poorly drained organics with some loams mixed throughout.

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

Ownership in and around the compartments is very fragmented and the Lake Michigan Shoreline is continually being developed with summer homes. There are an increasing number of year round residents in the area as well. Fragmentation is leading to more Land Use problems since new gates, illegal ORV trails, and illegal blinds are emerging all the time.

Unique Natural Features:

This area of the Garden Peninsula is home to various rare plants that grown on the Limestone Bedrock Glade that exists down here.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

The entire compartment is designated as obligate winter range for deer. A Limestone Bedrock Lakeshore ERA exists along the southeastern shoreline.

Watershed and Fisheries Considerations:

This compartment boarders Lake Michigan on the eastern shore of Garden Peninsula. A 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended for Lake Michigan shoreland to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Located in the Escanaba/Door Peninsula ecological sub-subsection and along the Lake Michigan shoreline on the Garden Peninsula, the first surveyors found the forests in this compartment to contain a mixture of deciduous and coniferous species. The upland forests included sugar maple, beech, white pine, white birch, hemlock, and aspen. Lowland areas held cedar, balsam fir, black spruce, hemlock, and balsam poplar. Current forest structure is dominated by cedar in the lowlands and aspen in the uplands. Wildlife habitat objectives center on deer yard management with a goal of maintaining aspen in the uplands and cedar in the lowlands. Wildlife species of special interest utilizing this compartment include white-tailed deer, ruffed grouse, and woodcock

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known metallic mineral potential in this area. A number of active sand/gravel pits are known to exist on the Garden Peninsula. An operation less than three miles northwest of the compartment also appears to be producing crushed stone from bedrock dolostone. There may be some potential for sand & gravel and crushed stone production within the compartment in the upland interior portions of sections 4 & 5. No current mineral leasing activity involving State-owned mineral rights exists in the area.

Vehicle Access:

Access to the compartment is good, the Portage Bay Road which is a Department Road runs through the entire compartment. Most of the two-track roads are gated once they enter private land.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

There are no developed recreation facilities within this compartment. However, the Portage Bay Rustic Camground lies just north of the northeast corner of the compartment. This ADA accessible campground has 23 campsites, a sand/gravel boat launch and the Ninja Aki interpretive pathway. The campground is managed by staff from Fayette Historic State Park, which is located a few miles southwest of the compartment.

Fire Protection:

Wildfire response times are extended here due to travel distance down the garden peninsula. Generally higher humidity exist here due to its proximately to the lakeshore which helps deter fire starts. Campground sees minimal use during summer months and wildfires from campfires have not been an issue here in the past.

Additional Compartment Information:

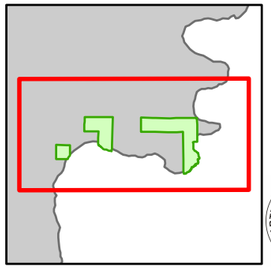
The following reports from the Inventory are attached:

- **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:

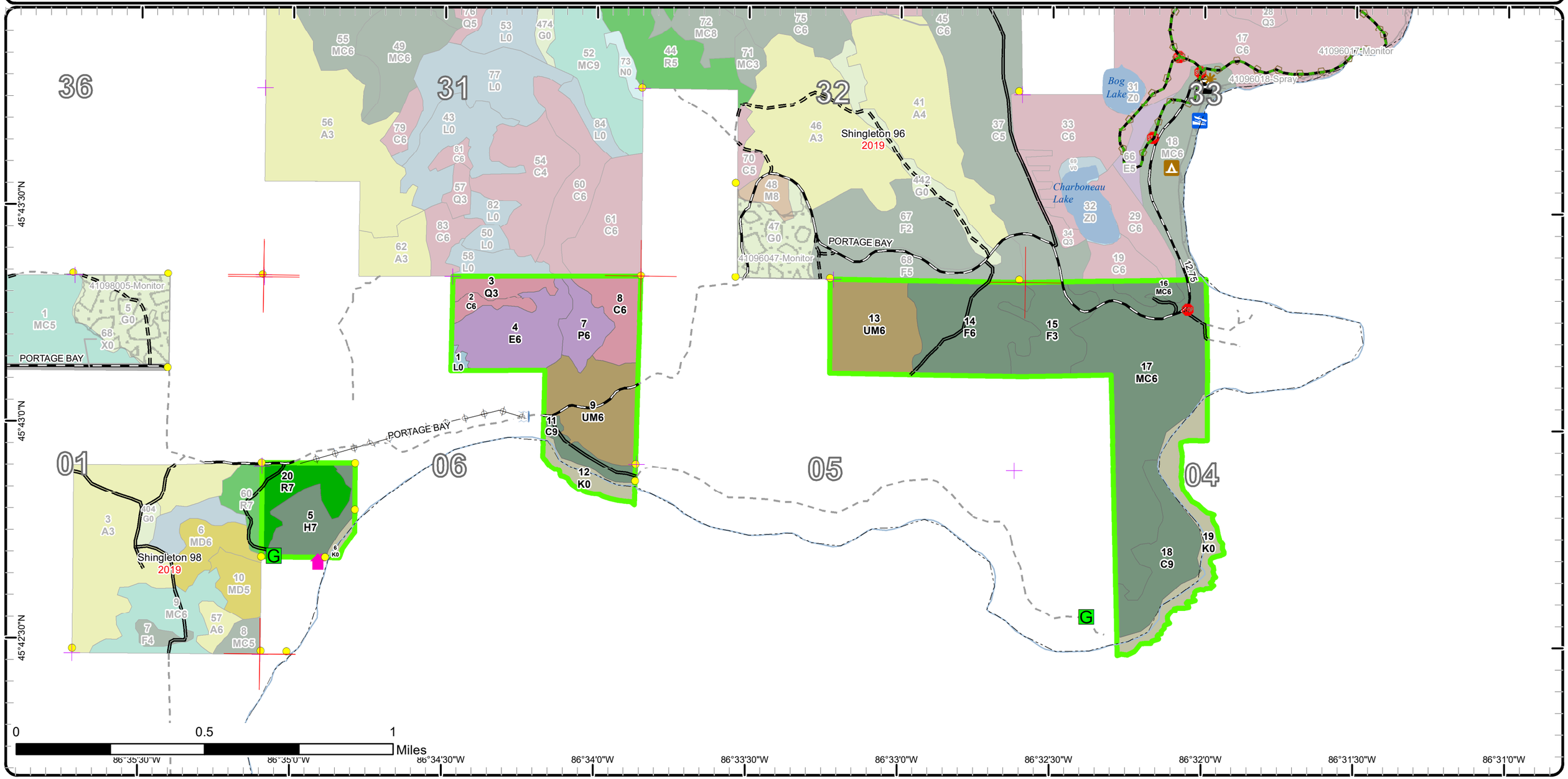
- **Base feature information, stand boundaries, cover types, and numbers**
- **Proposed treatments**
- **Site condition boundaries**
- **Details on the road access system**

Cover Type & Treatments Map

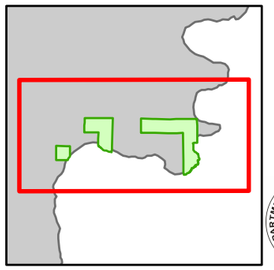


Compartment: 97
T38N, R18W, Sec. 4-6
County: Delta
Unit: Shingleton
Mgmt Area: Escanaba Lake and Till Plain
YOE: 2025
Acres: 429 GIS Calculated
Examiner: Adam Petrelius
Map Revised: 8/14/2023
Map Phase: Review

- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Private - Dirt / Gravel Road
- Designated Hiking Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Multi-Use Trails
- Structure, Seasonal Dwelling
- Gate
- Boating Access Site
- Culvert
- Campground
- Parking Lot
- Sign
- Trailhead
- Lake/Pond
- Shoreline
- Lakes and Rivers
- Powerline
- Compartment Boundary
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub
- 720 - Exposed Rock



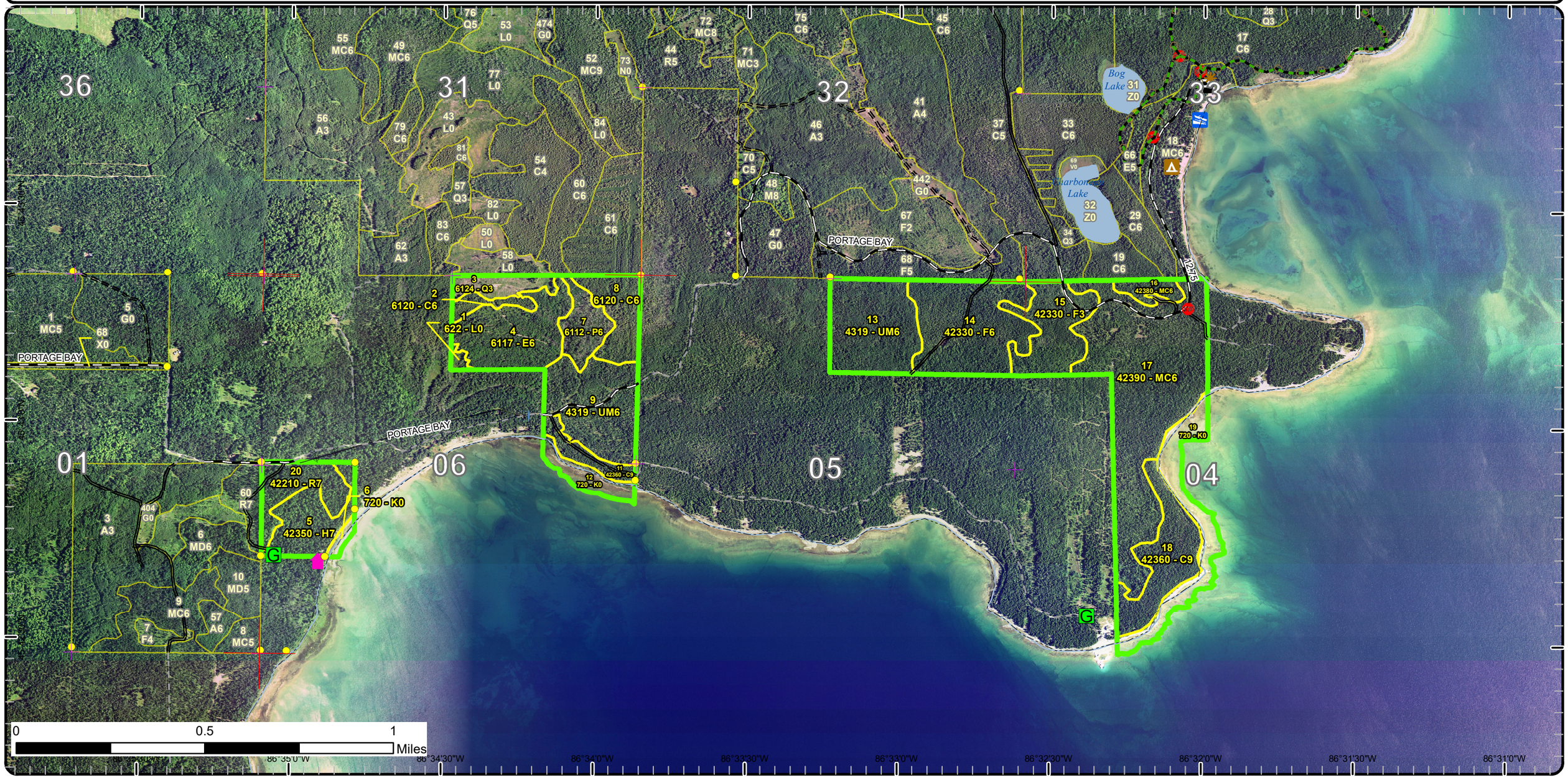
Stand Boundary Map



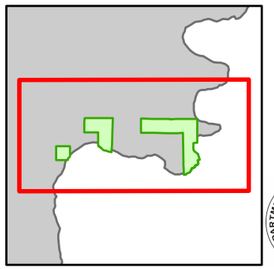
N

Compartment: 97
T38N, R18W, Sec. 4-6
County: Delta
Unit: Shingleton
Mgmt Area: Escanaba Lake and Till Plain
YOE: 2025
Acres: 429 GIS Calculated
Examiner: Adam Petrelius
Map Revised: 8/14/2023
Map Phase: Review

- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Private - Dirt / Gravel Road
- Designated Hiking Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Multi-Use Trails
- Structure, Seasonal Dwelling
- Gate
- Boating Access Site
- Culvert
- Campground
- Parking Lot
- Sign
- Trailhead
- Lake/Pond
- Shoreline
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Stand Boundaries
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 622 - Lowland Shrub
- 720 - Exposed Rock



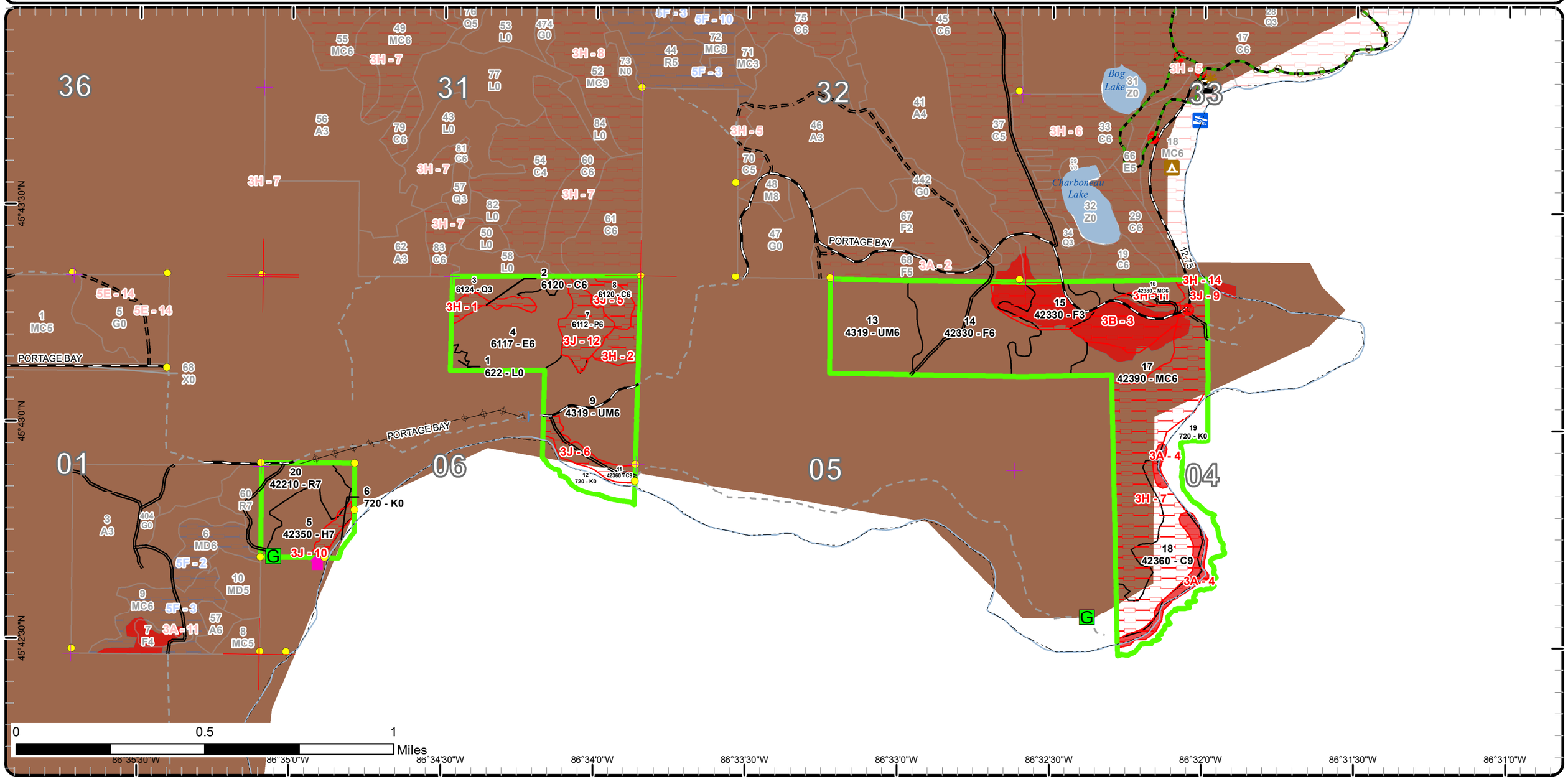
Special Conservation Areas



N

Compartment: 97
T38N, R18W, Sec. 4-6
County: Delta
Unit: Shingleton
Mgmt Area: Escanaba Lake and Till Plain
YOE: 2025
Acres: 429 GIS Calculated
Examiner: Adam Petrelius
Map Revised: 8/14/2023
Map Phase: Review

- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Private - Dirt / Gravel Road
- Designated Hiking Trails
- Designated Ski Trails
- Designated Snowshoe Trails
- Designated Multi-Use Trails
- Structure, Seasonal Dwelling
- Gate
- Boating Access Site
- Culvert
- Campground
- Parking Lot
- Sign
- Trailhead
- Lake/Pond
- Shoreline
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Unavailable
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Ecological Reference Areas
- Deer Winter Range



Report 1 – Total Acres by Cover Type and Age Class

Shingleton Mgt. Unit **Compartment 97** **Year of Entry 2025**

Adam Petrelius : Examiner

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
Cedar	0	0	0	0	0	0	0	0	0	0	45	5	8	0	0	0	0	0	**58**
Exposed Rock	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**36**
Hemlock	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	**20**
Lowland Aspen/Balsam Poplar	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	**12**
Lowland Conifers	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**9**
Lowland Deciduous	0	0	0	0	32	0	0	0	0	0	0	0	0	0	0	0	0	0	**32**
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Red Pine	0	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	**17**
Upland Conifers	0	0	0	0	0	6	0	0	0	96	0	0	0	0	0	0	0	0	**102**
Upland Mixed Forest	0	0	0	0	0	72	0	0	0	0	0	0	0	0	0	0	0	0	**72**
Upland Spruce/Fir	0	0	0	0	0	71	0	0	0	0	0	0	0	0	0	0	0	0	**71**
Total	**38**	**0**	**9**	**0**	**32**	**161**	**0**	**0**	**0**	**133**	**45**	**5**	**8**	**0**	**0**	**0**	**0**	**0**	**431**

Report 2 – Treatment Summary

Shingleton Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 97

Total Compartment Acres: 429

Commercial Harvest -

Harvests with Site Condition - 0

Next Step Harvest - 0

Habitat Cut - 0

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	0	0	0	0	0	36	0	0	0	**36**
Next Step	0	0	0	0	0	0	36	0	0	**36**
Total	**0**	**0**	**0**	**0**	**0**	**36**	**36**	**0**	**0**	**72**

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
Proposed Treatments:											
19	**41097019-Spray**	35.9	720 - Exposed Rock	Nonstocked			Pesticide	Hand Application	720 - Exposed Rock		No

Prescription Specs: Spray and monitor for phragmites as needed. Treatment was previously approved last YOE also.

Next Step Treatments: Monitoring, Herbicide Use

Acceptable Regen:

Other Comment:

Site Condition

Proposed Start Date: 1 /10/2023

Total Treatment Acreage Proposed: 35.9

Report 4 – Site Conditions

Shingleton Mgt. Unit

Adam Petrelius : Examiner

Compartment: 97

Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions 3A	3B	3H	3J
57	0	*0*	57	**Cedar**	4		38	15
36	30	*0*	6	**Exposed Rock**	6			0
20	16	*0*	3	**Hemlock**				3
12	0	*0*	12	**Lowland Aspen/Balsam Poplar**				12
9	9	*0*	0	**Lowland Conifers**				
32	32	*0*	0	**Lowland Deciduous**				0
2	2	*0*	0	**Lowland Shrub**				
17	17	*0*	0	**Red Pine**				0
102	22	*0*	80	**Upland Conifers**	0	18	61	1
72	72	*0*	0	**Upland Mixed Forest**				0
71	56	*0*	15	**Upland Spruce/Fir**		15		
429	255		174	Total Forested Acres	10	33	98	32
	59%		41%	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**	**3H: Deer Wintering Area - habitat is incompatible with harvest at this time**	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	**Unavailable**	**3H: Deer Wintering Area - habitat is incompatible with harvest at this time**	9	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

3	**Unavailable**	**3B: Threatened, endangered, and special concern species**	33	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	**Unavailable**	**3A: Conservation Values incompatible with harvest at this time**	11	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
	Comments:						
5	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	7	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	8	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
	Comments:						
7	**Unavailable**	**3H: Deer Wintering Area - habitat is incompatible with harvest at this time**	84	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

9	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	1	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
	Comments:						
10	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
11	**Unavailable**	**3H: Deer Wintering Area - habitat is incompatible with harvest at this time**	0	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
12	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	13	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
14	**Unavailable**	**3H: Deer Wintering Area - habitat is incompatible with harvest at this time**	0	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

Comments

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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
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	Managed Site	General Comments
1	622 - Lowland Shrub	Nonstocked	1.6			No	
2	6120 - Lowland Cedar	Poletimber Well	4.9	102	111-140	N/A	Originally part of stand 3, but was excluded from Portage Bay Sale because it was mostly cedar.
3	6124 - Lowland Spruce-Fir	Sapling Well	8.9	10	1-50	N/A	On contract. Portage Bay Sale, 11-09. Stand harvested in winter 2014. Will need a regeneration check next year of entry.
4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	32.0	32	1-50	N/A	
5	42350 - Upland Hemlock	Sawtimber Poor	19.6	85	1-50	N/A	[10/3/2018 TI] Stand was cut as part d Kregg Bay Sale #41-014-15-01. TCR Date 7/23/2018. Scarified in fall 2019
6	720 - Exposed Rock	Nonstocked	2.2			No	
7	6112 - Lowland Aspen	Poletimber Well	12.4	42	1-50	N/A	Prepwork was started last yoe, but a stream was found and cut off alot of acreage. Ground was also very wet and stand was factor limited.

Stand 2

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	90	Pole	9	102
Paper Birch	10	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling

Stand 3

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Sapling	1	
Red Maple	20	Sapling	1	
Paper Birch	10	Sapling	1	
Quaking Aspen	10	Sapling	1	
Black Spruce	20	Sapling	1	
Balsam Fir	30	Sapling	1	10

Sub-Canopy Species	Density	Avg. Height	Size
Alder	Medium	5 - 10 feet	Tall Shrub

Stand 4

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	30	Pole/Sapling	5	
Paper Birch	10	Pole	7	
Red Maple	40	Pole	7	32
Quaking Aspen	20	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Alder	Low	5 - 10 feet	Tall Shrub
Red Maple	High	10 - 20 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling

Stand 5

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	20	Log	11	
Balsam Fir	10	Pole/Sapling	5	
Hemlock	70	Log	14	85

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	< 5 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling

Stand 7

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	7	
Quaking Aspen	50	Pole	6	42
Balsam Fir	40	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Alder	Medium	5 - 10 feet	Tall Shrub
Black Ash	Medium	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	6120 - Lowland Cedar	Poletimber Well	16.6	90	81-110	N/A	Prepwork started on stand last yoe with stand 7, but stopped when a creek was found.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole/Log	9	
Northern White Cedar	90	Pole/Log	9	90

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
9	4319 - Mixed Upland Forest	Poletimber Well	35.5	42	1-50	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	40	Pole/Sapling	5	
Northern White Cedar	10	Pole	5	
Quaking Aspen	50	Pole/Sapling	5	42

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	42360 - Upland Cedar	Sawtimber Well	8.0	113	111-140	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	7	
Northern White Cedar	80	Log/Pole	11	113
Balsam Fir	10	Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Managed Site
12	720 - Exposed Rock	Nonstocked	9.1	No

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	4319 - Mixed Upland Forest	Poletimber Well	36.1	47	81-110	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	50	Pole	7	47
White Pine	5	Pole	8	
Balsam Fir	40	Pole/Sapling	6	
Northern White Cedar	5	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	42330 - Upland Fir	Poletimber Well	45.7	47	51-80	N/A	some scattered mature fir

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	70	Pole/Sapling	6	47
Northern White Cedar	10	Pole	9	
White Pine	20	Pole/Log/Sap	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Full	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	42330 - Upland Fir	Sapling Well	25.3	42	1-50	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	60	Sapling/Pole	4	42
Northern White Cedar	10	Sapling/Pole	4	
Bigtooth Aspen	30	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	42380 - Non Pine Upland Conifer, Mixed Deciduous	Poletimber Well	5.6	42	51-80	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	7	
Quaking Aspen	25	Pole	6	
Northern White Cedar	15	Pole/Sapling	6	
Balsam Fir	50	Pole/Sapling	5	42

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	10 - 20 feet	Sapling
Northern White Cedar	Medium	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
17	42390 - Mixed Non-Pine Upland Conifers	Poletimber Well	96.2	85	1-50	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	50	Pole	8	85
Balsam Fir	40	Sapling/Pole	4	
Black Spruce	10	Pole/Sapling	7	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Medium	10 - 20 feet	Sapling
Balsam Fir	High	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	42360 - Upland Cedar	Sawtimber Well	28.0	90	111-140	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole/Sapling	7	
Black Spruce	10	Pole	7	
Northern White Cedar	80	Log	10	90

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	720 - Exposed Rock	Nonstocked	24.6			No	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
20	42210 - Natural Red Pine	Sawtimber Poor	16.8	85	1-50	N/A	[10/3/2018 TI] Stand was cut as part d Kregg Bay Sale #41-014-15-01. TCR Date 7/23/2018.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	30	Log	14	
Red Pine	70	Log	14	85

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	< 5 feet	Sapling
Red Pine	Low	< 5 feet	Sapling

Scarified in fall 2019