



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71061

Entry Year 2019

Acreage: 1,274

County Roscommon

Management Area: AuSable Outwash

Revision Date: 2017-07-28

Stand Examiner: Dale Ekdom

Legal Description:

T23N R2W Sections 9 and 16

Identified Planning Goals:

Vegetation management in the Au Sable Outwash Management Area will provide timber products; maintain or enhance wildlife habitat; protect areas of unique character including several state wildlife area floodings, the Roscommon Forest Fire Experiment Station, threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for the next ten years will focus on improving the age class structure of aspen, harvesting older jack pine and regeneration of red pine and oak to help balance age classes. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity and management of the State Wildlife Management Areas. Expected issues within the next decade are increased non-native exotic plants, especially Phragmites in the wetland areas, and increased recreational pressure.

Soil and topography:

Terrain is mostly flat outwash plain except in the NW of section 9 which has ice contact ridges with moderately steep hills. Soils are primarily Rubicon sand in the NW of section 9 and Greenwood peat in the rest of the compartment.

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

100% state land and totally surrounded by state land except for a private 40 on the east edge which has been proposed for acquisition as part of the 9 Mile Complex ERA plan.

Unique Natural Features:

Poor Fen, Muskeg, Mesic Northern forest, and Dry-Mesic Northern forest identified in the compartment. Poor conifer swamp identified to the south-east. Good potential for bald eagles, osprey, loons, great blue herons, and other marsh birds. Potential for red-shouldered hawk and goshawk in the hardwood stands. Potential for ram's head orchid, calypso orchid, and limestone oak fern in the swamps.

Archeological, Historical, and Cultural Features:

Archeological site reported in the compartment.

Special Management Designations or Considerations:

Portions of the Nine Mile Complex Ecological Reference Area (ERA) are within this compartment

Watershed and Fisheries Considerations:

Design any treatments in the compartment to maintain the natural hydrology of the area to benefit the Nine Mile Complex ERA.

Wildlife Habitat Considerations:

Maintain ecosystem diversity in the compartment via habitat manipulation to benefit game species such as deer, grouse, rabbits, and turkeys as well as non-game species.

Mineral Resource and Development Concerns and/or Restrictions

The state-owned Nine Mile Pit is located one-half mile to the west and the St. Helen/Carter pit is one mile to the southeast. Most of the compartment consists of wetlands and lowlands. The best potential for sand and gravel in the compartment is in the northernmost portion of Section 9. The nearest hydrocarbon production (past or present) is greater than four miles away. There has been sparse exploration in the area. One dry hole is located just outside the compartment. All of the parcels in the compartment are currently leased for oil and gas exploration and development but are in the process of being released. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access to the north end and also portions of the east and west edges of the compartment is decent via seasonal county roads and state forest two-tracks. The interior and the south end of the compartment are walk-in only due to the wet terrain.

Survey Needs:

None necessary at this time.

Recreational Facilities and Opportunities:

Mostly dispersed recreation such as hunting and gathering. There is a portion of the Geels ORV trail in the north end of the compartment. Lack of vehicle access due to swampy ground can make recreational opportunities difficult for the public in this compartment.

Fire Protection:

Much of the compartment is either hardwoods or swamp so fire protection should not be a problem except in dry years.

Additional Compartment Information:

The following reports from the Inventory are attached:

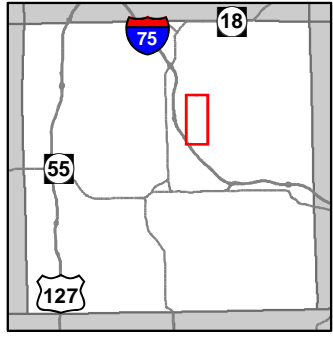
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

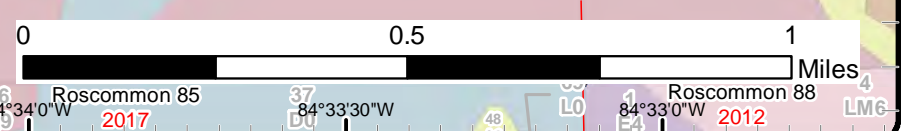
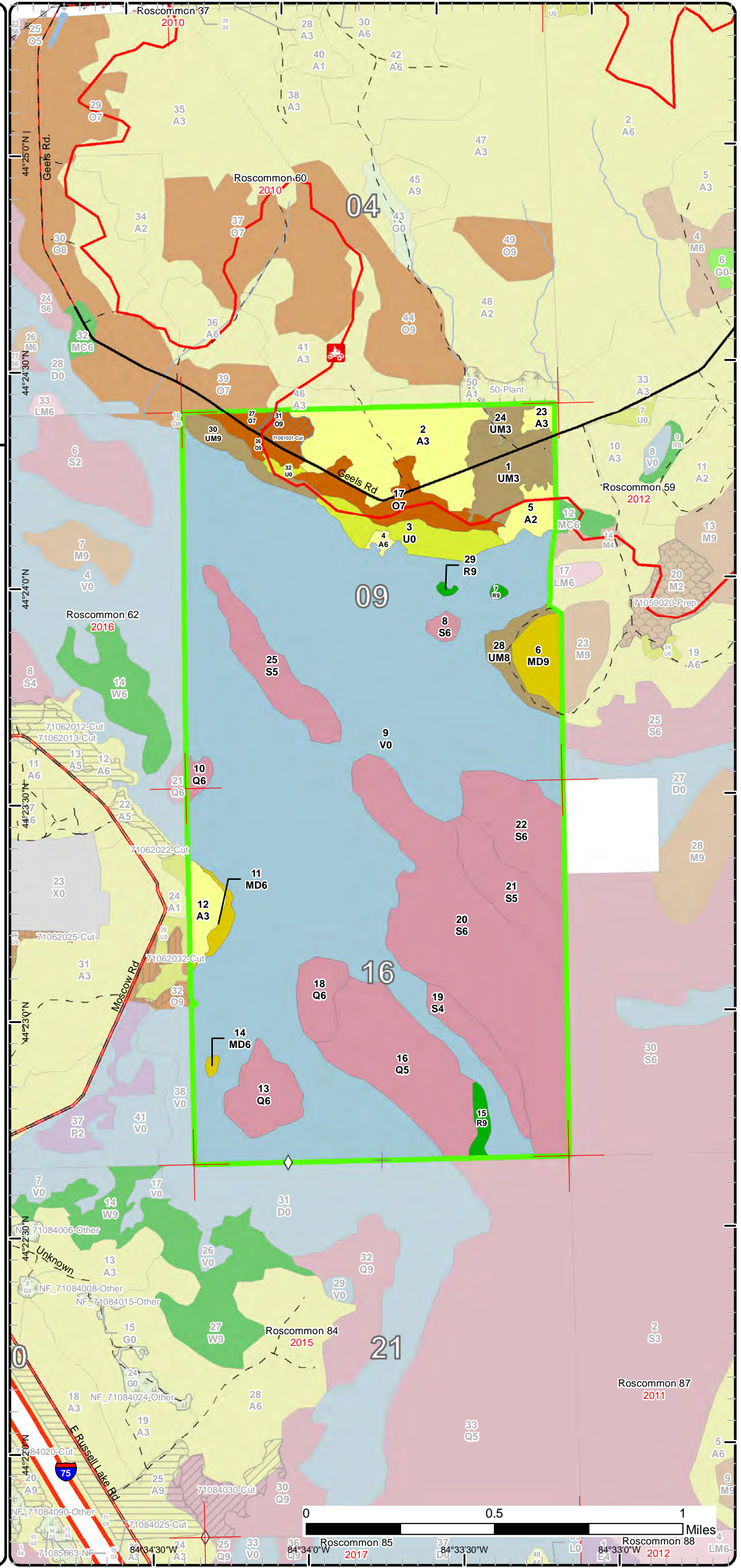
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatment Map

Compartment: 61
 T23N,R02W, Sec.09, 16
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: AuSable Outwash
 YOE: 2019
 Acres: 1273.7 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 8/2/2017
 Map Phase: Review

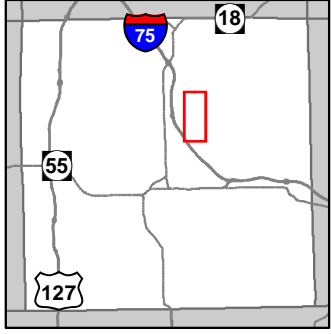


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- 🚲 ORV Trails
- Designated ATV
- Highway
- Paved Roads
- County Gravel Roads
- County Poor Dirt Roads
- - - Poor Dirt Roads
- - - Closed
- Streams
- Lakes and Rivers All
- ⊕ Powerline
- Compartment Boundary
- Thinning (Crown, Low, Systematic)
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub
- Lakes

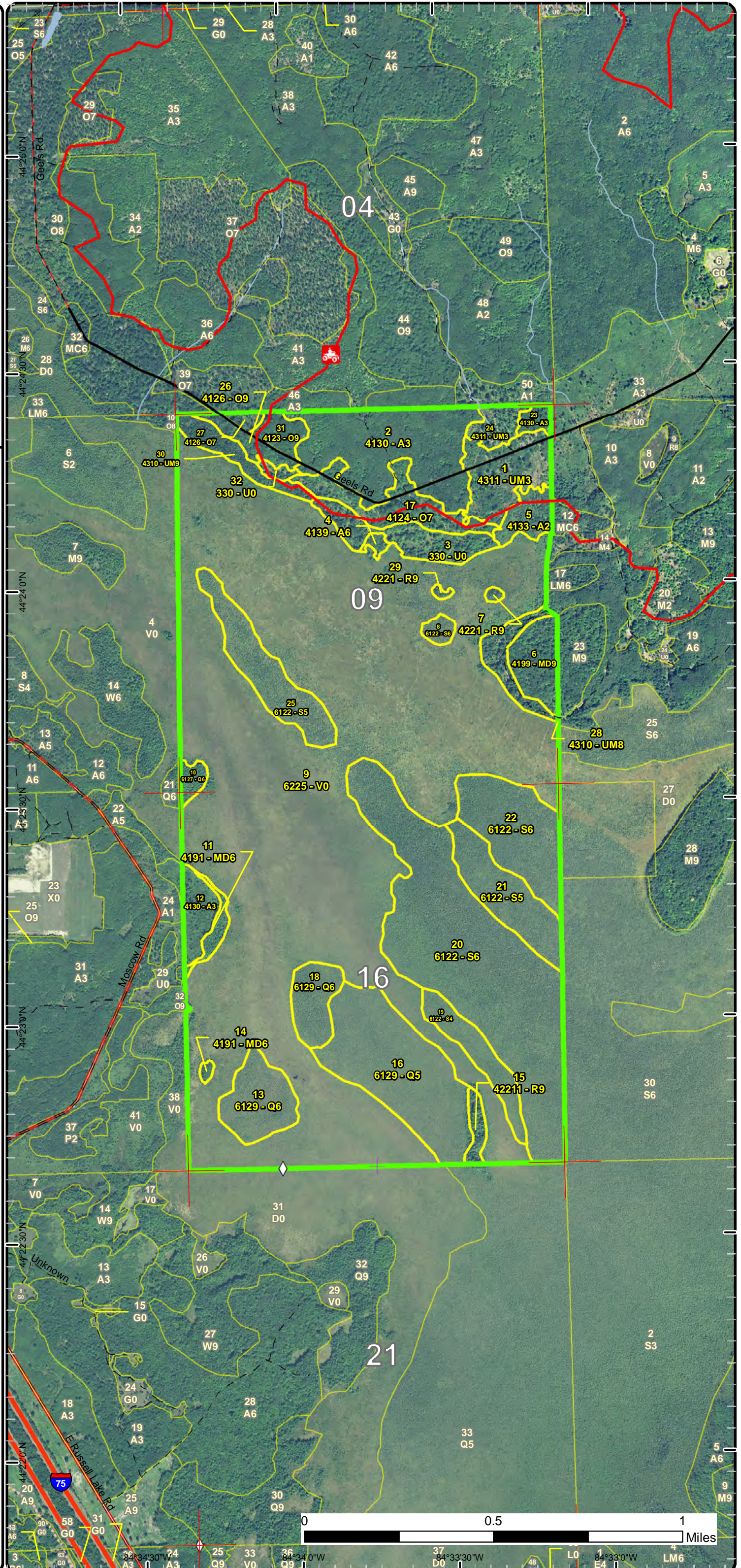


Stand Boundary Map

Compartment: 61
T23N,R02W, Sec.09, 16
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Unit: Roscommon
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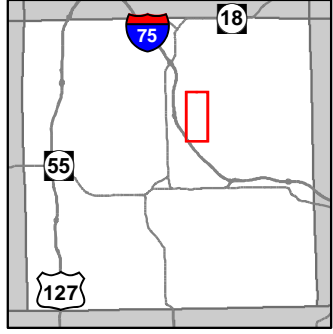


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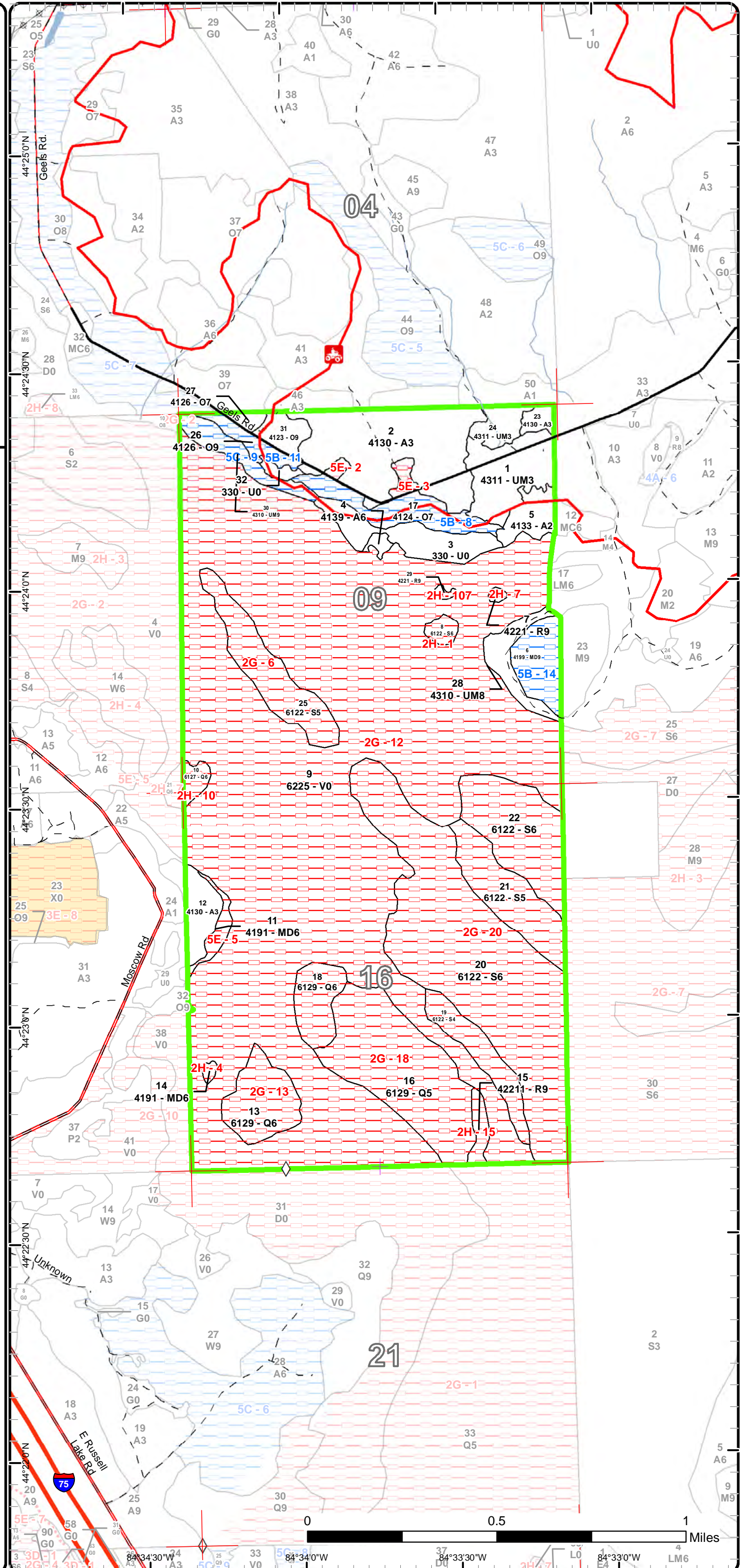


Special Conservation Areas & Site Conditions Map

Compartment: 61
 T23N,R02W, Sec.09, 16
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: AuSable Outwash
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- Miris Corners
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- County Poor Dirt Roads
- Poor Dirt Roads
- Closed
- Streams
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5E: Long-Term Retention
- Stand Boundaries
- Sand or Gravel Pit



Report 1 – Total Acres by Cover Type and Age Class



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
Aspen	0	11	14	61	0	2	0	0	0	0	0	0	0	0	0	0	0	0	88
Bog	681	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	681
Low-Density Trees	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Conifers	0	0	0	0	0	0	64	0	0	41	0	0	0	0	0	0	0	0	104
Lowland Spruce/Fir	0	0	0	0	0	0	31	17	68	0	139	0	0	0	0	0	0	0	254
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	22
Oak	0	0	0	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	40
Red Pine	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	34	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	11	57
Total	703	45	14	61	0	2	31	81	68	0	260	0	0	0	0	0	0	11	1274



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 61
Total Compartment Acres: 1,274

Commercial Harvest - 7
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
Oak		0	0	0	0	7	0	0	0	7	
	Total	0	0	0	0	7	0	0	0	7	

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		7	0	0	0	0	0	0	0	7	
	Total	7	0	0	0	0	0	0	0	7	



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
31	71061031-Cut	7.3	4123 - Red Oak	Sawtimber Well	90	111- 140	Harvest	Crown Thinning	412 - Oak Types	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Thin to 90 SF and open up 3 or 4 regeneration holes scattered thru-out the stand, Individual tree marking, No spec cut on aspen/RM
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Add trail protection specs for ORV trail, WLD marked some den trees to leave with green paint

Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
 Acreage Proposed: 7.3**

Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdom : Examiner

Compartment: 61

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions						
		With Condition	Not Available		5B	5C	2G	2H	5E	
87	87	0	0	Aspen						
681	0	0	681	Bog			681			
22	22	0	0	Low-Density Trees						
105	0	0	105	Lowland Conifers			101	4		
255	0	0	255	Lowland Spruce/Fir			252	3		
22	0	16	6	Mixed Upland Deciduous	16			1	5	
40	10	26	4	Oak	26				4	
6	0	0	6	Red Pine				6		
56	44	12	0	Upland Mixed Forest		12				
1,274	164	53	1,057	Total Forested Acres	42	12	1,033	15	9	
	13%	4%	83%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable		2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: slightly higher island surrounded by marsh								
2	Unavailable		5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: retention left from 2010 cut								
3	Unavailable		5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: retention left from 2010 cut								

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 61

Dale Ekdorn : Examiner

Year of Entry: 2019

4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdorn : Examiner

Compartment: 61

Year of Entry: 2019

10	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5B: Maintain for regeneration purposes	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	680	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	22	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 61

Dale Ekdorn : Examiner

Year of Entry: 2019

18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	79	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	223	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
107	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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
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.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4311 - Pine, Aspen Mix	Sapling Well	25.8	8	Immature	cut summer 2002, left scattered oak mast trees when cut; regeneration was only partially successful so the more open areas of the stand were trenched/planted to red pine in 2009, red pine is growing well, aspen is mix of BTA and QA.
2	4130 - Aspen	Sapling Well	60.9	28	Immature	Nice A3 stand which is in transition to A6 with scattered pole-size trees, bulk is still non-merchantable
4	4139 - Aspen, Mixed Deciduous	Poletimber Well	1.8	44	Unspecified	OLD HABITAT CUT WITH 4" SPEC. (?), LEFT PINE AND OAK WHEN CUT, TA is very poor quality and starting to decline, heavy red maple u.,s., in most spots, SOME HYPOX. CANKER ON ASPEN, Cut now or let convert to red maple stand, SE and SW arms are mostly oak SL's and white pine poles, ,
5	4133 - Aspen, Mixed Pine	Sapling Medium	9.9	14	Immature	cut in 2002 with poor results initially but slowly filling in, A3 on the higher ground and mix of sparse aspen, maple, white pine on the lower ground, transition zone which gets wetter as it goes south, estimate that 1/4-1/3 of the south end is not operable, south arm is mostly dry but fairly sparse with just scattered hardwood and conifer regeneration.
6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	16.0	93	81-110	Sale was cut in fall of 2012 by Dyers Sawmill and Paul Burns Logging. 71-025-09-01, fairly open u.s. with lots and lots of deer browse
7	4221 - Natural Red Pine	Sawtimber Well	0.9	93	81-110	SMALL ISLAND SURROUNDED BY MARSH, HIGH WATER TABLE, NOT ACCESSIBLE FOR MANAGEMENT
8	6122 - Black Spruce	Poletimber Well	3.3	57	Unspecified	concentration of black spruce poles surrounded by marsh
10	6127 - Lowland Pine	Poletimber Well	3.9	94	81-110	White pine stand with it being heaviest around the perimeter and grading into more red maple and paper birch towards the center and adjacent compartment. Regeneration is mainly heavy white pine with some red maple. It's an island in the middle of a leatherleaf bog and can't be reached for harvest.
11	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	4.6	93	81-110	OPIK - FMD: TRANSITION ZONE BETWEEN UPLAND TO WEST AND SWAMP/BOG TO EAST, HUMMOCKY but wetter than Stand 11, SCATTERED OAK/PINE SAWLOGS/POLES/SAPLINGS with mostly RM poles and a few aspen poles, a few areas with Tag Alder, stand was left as retention for cut to west.
12	4130 - Aspen	Sapling Well	10.9	6	Immature	hummocky but mostly operable, cut summer 2010, left scattered white pine poles/SL's
13	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	21.8	90	Unspecified	Stand YOE is 1926, very wet and slow growing, edges grade to treed bog and then bog
14	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	1.0	93	81-110	Small somewhat upland island surrounded by marsh, no access



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	42211 - Natural Red Pine, Mixed Deciduous	Sawtimber Well	4.7	90	81-110	ISLAND SURROUNDED BY SWAMP AND MARSH, Part of Nine Mile Complex ERA
16	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	64.2	60	Unspecified	OI Stand Year Origin was 1956, very slow growing, south part and east/west edges grade into leatherleaf bog/treed bog
17	4124 - Red with White Oak	Sawtimber Poor	23.4	90	51-80	Cut A/RM/WB during summer 2010 - left oak and R/W pine, parts now have fairly open under-story with other parts having heavy A3 or M3, oak over-story is also very variable with parts more dense than others, R/W pine poles and SL's scattered thru-out stand, under-story is growing well and should fill in over time, evaluate featuring the under-story next YOE.
18	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	14.8	90	Unspecified	Stand Year Origin was 1926, very slow growing
19	6122 - Black Spruce	Poletimber Poor	17.0	60	Unspecified	very slow growing stand, just into pole-size, west edge grades into treed bog and then bog
20	6122 - Black Spruce	Poletimber Well	139.3	90	Unspecified	black spruce/cedar swamp, wet and slow growing
21	6122 - Black Spruce	Poletimber Medium	28.2	55	Unspecified	very wet and slow growing stand, just into pole-size
22	6122 - Black Spruce	Poletimber Well	38.5	70	Unspecified	OPIIC - FMD: OI Stand Year Origin was 1946
23	4130 - Aspen	Sapling Well	3.7	14	Immature	Cut summer 2002 with good regeneration success, now nice A3 with scattered oaks left for mast trees
24	4311 - Pine, Aspen Mix	Sapling Well	7.7	8	Immature	Cut summer of 2002 with mixed regeneration success- less aspen than stand1, scattered oaks left as mast trees, trenches/planted to red pine in 2009, red pine growing well
25	6122 - Black Spruce	Poletimber Medium	28.9	70	Unspecified	Island of trees within large bog/fen/muskeg complex (9 Mile complex ERA)
26	4126 - White, Black, N. Pin Oak	Sawtimber Well	6.9	90	111-140	oak sl/xl o.s. with wp saps u.s., looks to have been thinned in the past 10-20 years(?)
27	4126 - White, Black, N. Pin Oak	Sawtimber Poor	2.4	90	1-50	appears to have been a seed-tree/shelterwood cut with stand 39 to to the north in 71060 in August, 2010, now oak SL's with scattered pine in over-story and mix of aspen/RM saplings and oak saplings in the under-story.
28	4310 - Pine, Oak Mix	Sawtimber Medium	10.9	93	51-80	was u-type last YOE, now there is too much white pine and other regent that it's now a forested stand, north part is hw with scattered conifers and south parts is conifers with scattered hw, multiple sizes and ages of all species, very variable stand and growing well on its own - therefore, good stand to leave alone to buffer Nine Mile Complex ERA to the east

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Roscommon Mgt. Unit

Report 7 – Forested Stands

Compartment: 61
Year of Entry: 2019

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	4221 - Natural Red Pine	Sawtimber Well	0.8	93	81-110	SMALL ISLAND SURROUNDED BY MARSH, HIGH WATER TABLE, NOT ACCESSIBLE FOR MANAGEMENT
30	4310 - Pine, Oak Mix	Sawtimber Well	11.5	90	111-140	FORMERLY AN OAK STAND BUT NOW CONVERTED TO WHITE PINE, MANAGE FOR A WHITE PINE - OAK MIX WITH STAND #26 (S. OF GEELS ROAD) IN 10 years , 2 aged going to all aged.
31	4123 - Red Oak	Sawtimber Well	7.3	90	111-140	OPIC - FMD: TERRAIN SLOPES N.E. TO S.W. WITH GOOD FROST DRAINAGE, SOUTH END HAS WHITE PINE SAPLINGS IN THE U.S., rest of the U.S. is fairly open, SCATTERED SOLITARY ASPENS, DECENT TO GOOD QUALITY RO/MO AND SCATTERED FAIR QUALITY W. OAK, GROWING WELL WITH NO HEALTH PROBLEMS, Thin now and try to open up some regeneration holes, Individual tree mark to 90 sf, no spec cut on aspen/RM



Stand	Cover Type	Acres	Managed Site	General Comments:
3	330 - Low-Density Trees	20.1	No	SCATTERED CHERRY/OAK/RED MAPLE POLES & SAWLOGS WITH ENCROACHING CHERRY/RED MAPLE REGENERATION, COULD CALL M4 OR M7, VERY OPEN IN SPOTS AND OTHER SPOTS ARE M3 (Red Maple)
9	6225 - Bog	680.6	No	LARGE WETLAND AREA, PART OF LONG CROSSWAY SWAMP, PARTS ARE "N" OR "V" OR "L", Parts are within the 9 Mile complex ERA
32	330 - Low-Density Trees	2.2	No	OPIC - FMD: "U" TYPE WITH SCATTERED O/WP SAWLOGS AND POLES, ENCROACHING RM/WP REGENERATION