

Compartment Review Presentation

Cadillac Forest Management Unit Compartment 81 Entry Year 2016 Acreage: 2,046 County Missaukee Management Area: Houghton Lake Wetlands

Revision Date: 06/05/2014

Stand Examiner: Jim Malloy

Legal Description:

T24N R5W, Sections 19,20,21,28

Identified Planning Goals:

Vegetation management in the Houghton Lake Wetlands Management Area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year planning period will focus on balancing the aspen ageclass distribution. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation opportunity. Expected trends within the next decade are the need to continue to balance aspen age-class distributions, an expected increase in recreation pressure and invasive species encroachment.

Soil and topography:

Mainly Lupton-Roscommon-Tawas association. Mostly level terrain poorly drained mucky soils. Sandy soils in the upland depressions on outwash plains, till plains and moraines.

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

Solid state ownership, with the exception of a 40 acre parcel, NWSE of sec 20, listed for acquisition. Hunting and trapping are the main recreational use, there are no trails. The Deadstream creek runs east/west through compartment. Land use around the compartment are Christmas tree plantations and seasonal hunting residences. The two 40 acre parcels in the NE1/4 of section 19 have limited access through private property. These parcels should be available for disposal if a trade for something of greater value is available.

Unique Natural Features:

Potential for massasauga, along Deadstream. Potential for great blue heron rookery, eagle, osprey, blandings turtle, wood turtle, eastern box turtle, spotted turtle and loon.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Maintain integrity of deadstream watershed. Continue to create a variety of cover types and age classes.

Watershed and Fisheries Considerations:

Fisheries Division's Muskegon River Watershed Assessment and Plan recommends protection/restoration of natural vegetation along all waterbodies in the watershed. A 300' buffer is recommended as the Deadstream is a designated trout stream, within the Muskegon River Watershed. (Richard O'Neal)

Wildlife Habitat Considerations:

This compartment encompasses a large part of the Deadstream Swamp. This swamp complex and associated uplands are key black bear habitat and part of a large deer wintering complex. Greater emphasis should be placed on promoting larger stands of older age and mixed age classes to provide diversity in vertical and horizontal structure in this compartment. Generally, wildlife goals are to maintain lowland conifer and to promote oak and aspen adjacent to lowlands. Creation of brush piles near lowlands, protection of mast bearing shrubs and provision of coarse woody debris are also desired. Featured species of special interest are black bear, deer, snowshoe hare, woodcock, and golden-winged warbler. (E. Victory 7/18/14)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan Formation is quarried for gypsum in other areas of the State. Gravel pits are located two miles to the southwest, but gravel

potential appears to be limited. East Norwich Field is located to the north of this compartment. The field has produced over 15.9 million BO and 15.7 Bcf gas from the Devonian Richfield Formation. It is in secondary recovery operations currently. There is one State parcel currently leased and held by production in the Compartment.

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs:

None needed at this time.

Recreational Facilities and Opportunities:

There are no developed recreational facilities within this compartment. There are numerous opportunities for hunting and trapping. (T.M.N. 3/14)

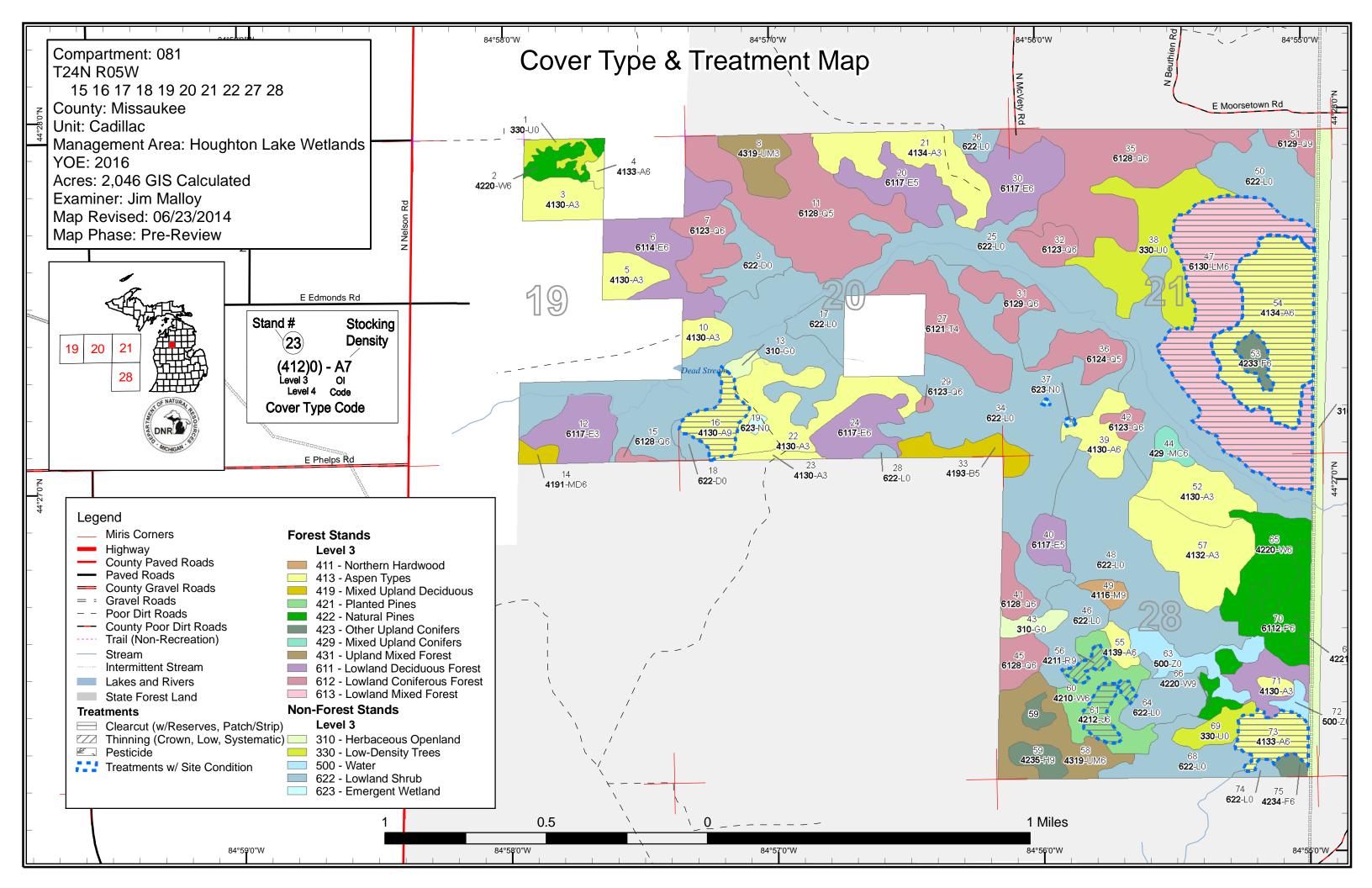
Fire Protection:

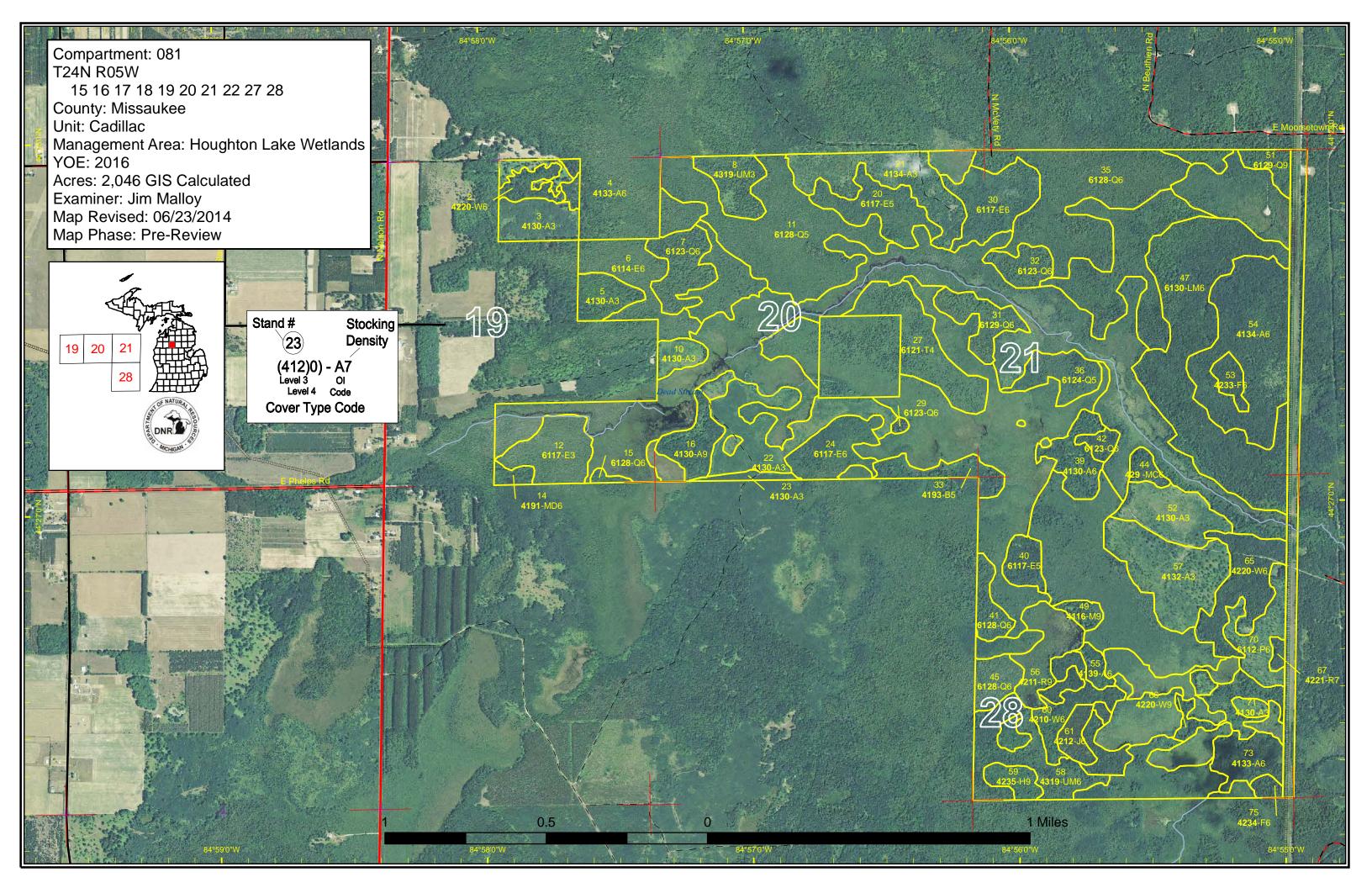
Access to this compartment is very limited for suppression equipment. Past fires have been very limited.BET5-14

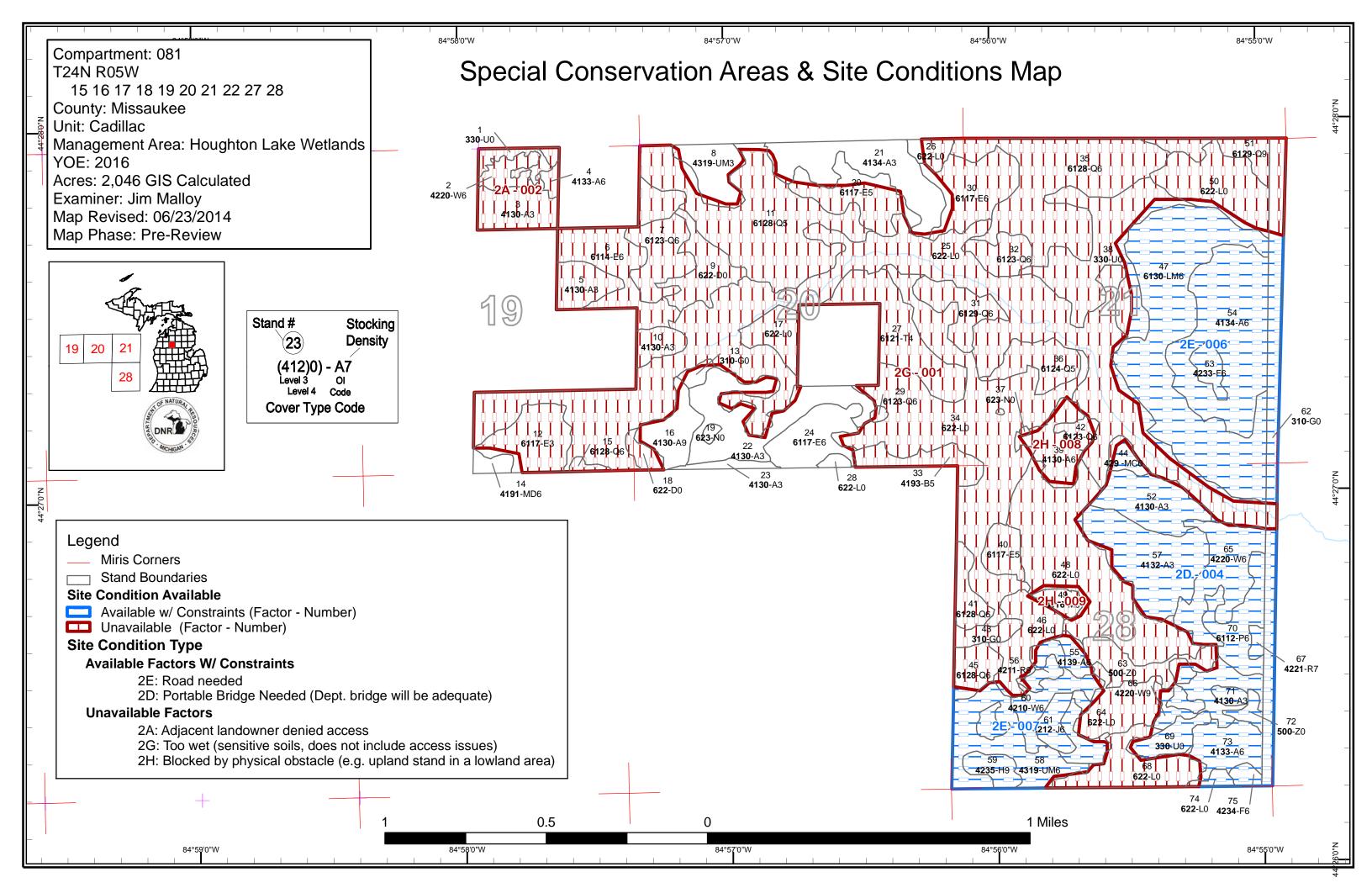
Additional Compartment Information:

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







Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit James Malloy : Examiner

Compartment 081 Year of Entry 2016



Age Class

			0 ² 0	10 ⁻¹²	60°		50°	60°	10'10	0 ⁰ 0	999 J	00 ^{1,0} 01	611.01.	*0°*	AND A	, digit
Aspen	155	62	0	0	23	119	0	0	0	0	0	0	0	0	359	
Hemlock	0	0	0	0	0	0	0	0	13	0	0	0	0	0	13	
Herbaceous Openland	60	0	0	0	0	0	0	0	0	0	0	0	0	0	60	
Jack Pine	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9	
Low-Density Trees	77	0	0	0	0	0	0	0	0	0	0	0	0	0	77	
Lowland Aspen/Balsam Poplar	0	0	0	0	15	0	0	0	0	0	0	0	0	0	15	
Lowland Conifers	0	0	0	0	22	100	41	14	0	0	113	0	0	0	289	
Lowland Deciduous	0	0	0	51	27	11	31	0	0	0	40	0	0	0	161	
Lowland Mixed Forest	0	0	0	0	0	123	0	0	0	0	0	0	0	0	123	
Lowland Shrub	639	0	0	0	0	0	0	0	0	0	0	0	0	0	639	
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
Mixed Upland Deciduous	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4	
Northern Hardwood	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6	
Paper Birch	0	0	0	0	0	0	0	15	0	0	0	0	0	0	15	
Red Pine	0	0	0	0	0	0	31	0	0	0	0	0	0	0	31	1
Tamarack	0	0	0	0	0	0	0	38	0	0	0	0	0	0	38	1
Treed Bog	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1
Upland Conifers	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6	1
Upland Mixed Forest	0	18	0	0	37	0	0	0	0	0	0	0	0	0	56	
Upland Spruce/Fir	0	0	0	7	0	4	0	0	0	0	0	0	0	0	11	1
Water	25	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1
White Pine	0	0	0	0	0	77	5	0	0	0	0	0	0	0	82	
Total	984	80	0	58	124	448	119	67	13	0	153	0	0	0	2046	



MICHIGAN	Cadillac Mgt. Unit Year of Entry 2016										Compartment Total Compartment Acres:	
				Acres	s by T	reatm	ent Ty	ре				
	Commercial Harvest - 252	Tree Planting - 9		0	ther -	1						
	Habitat Cut - 0	Opening Maintena	ince - 0									
				Cove	er Tvr	be by H	larves	st Meth	nod			
				(Contraction of the second	000/1000	do d	Chining Of	<u> </u>	Pop Contraction of the second		
	Aspen Types		114	0	0	0	0	0	114			
	Lowland Mixed Forest				0	0	0	0	123			
	Planted Pines		9	0	0	0	6	0	15			
		Total	246	0	0	0	6	0	252			

S t						Treatm No Limi	Compartment: 081 Year of Entry 2016	DNR MICHIGAN		
n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
		#Type!	#Type!							
<u>Prese</u> Spec										
<u>Com</u> <u>Next</u> <u>Steps</u>	<u>ments:</u> <u>s:</u>									
<u>Propo</u> Start [
A	Total Treatme creage Propose	· .	0							

S t		Cad	illac Mgt. Unit	Report 4		eatment Site Con	s Prescribed	d with	Compartment: 081 Year of Entry 2016	DR NATURAL READER
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	63081016-Cut	17.2	4130 - Aspen	High Density Log	44		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<u>Pres</u> Spec		rvest stand	I. Leave a buffer along	g lowland com	plex to	the west.				
<u>Othe</u> Com	<u>r</u> ment:									
<u>Next</u> <u>Step</u>										
<u>Prop</u>	<u>osed</u> <u>Date:</u> 10/01/20)15								
	ing Factor	2G:	Too wet (sensitive so	oils, does not	include	access iss	sues)			
47	63081047-Cut	123.0	6130 - Fir, Aspen, Maple	High Density Pole	51	51-80	Harvest	Clearcut	612 - Lowland Coniferous Forest	Cmpt. Review Proposal
Pres Spec		rvest to reç	generate lowland coni	fer componen	t of sta	nd.				
<u>Othe</u> Com	<u>r</u> ment <u>:</u>									
<u>Next</u> Step										
<u>Start</u>	<u>osed</u> <u>Date:</u> 10/01/20 ing Factor		Road needed							
<u>Start</u>			Road needed 4134 - Aspen, Spruce/Fir	High Density Pole	56	51-80	Harvest	Clearcut	413 - Aspen	Cmpt. Review Proposal
Start Limit 54 Pres	Date: 10/01/20 ing Factor 63081054-Cut cription Final har	2E: 77.8	4134 - Aspen,	Density Pole					413 - Aspen	Cmpt. Review Proposal
Start Limit 54 Pres Spec	Date: 10/01/20 ing Factor 63081054-Cut cription Final har s: r	2E: 77.8	4134 - Aspen, Spruce/Fir	Density Pole					413 - Aspen	
Start Limit 54 Pres Spec Othe Com Next	Date: 10/01/20 ing Factor 63081054-Cut cription Final har s: <u>r</u> ment:	2E: 77.8	4134 - Aspen, Spruce/Fir	Density Pole					413 - Aspen	
Start Limit 54 Pres Spec Othe Com Next Step Prop	Date: 10/01/20 ing Factor 63081054-Cut cription Final have s: r ment: s: osed	2E: 77.8 rvest asper	4134 - Aspen, Spruce/Fir	Density Pole					413 - Aspen	
Start Limit 54 Press Spec Othe Com Next Step Prop Start	Date: 10/01/20 ing Factor 63081054-Cut cription Final han ss: r ment: s:	2E: 77.8 rvest asper	4134 - Aspen, Spruce/Fir	Density Pole					413 - Aspen	
Start Limit 54 Press Spec Othe Com Next Step Prop Start	Date: 10/01/20 ing Factor 63081054-Cut cription Final har s: r ment: s: osed Date: 10/01/20	2E: 77.8 rvest asper	4134 - Aspen, Spruce/Fir n and maple and thin Road needed 42110 - Planted	Density Pole conifer compo	onent of	f white pine			4211 - Planted Red	Proposal Cmpt. Review
Start Limit 54 Press Spec Othe Com Next Step Prop Start Limit	Date: 10/01/20 ing Factor 63081054-Cut cription Final have s: r ment: s: osed Date: 10/01/20 ing Factor 63081056-Cut cription Thin pine	2E: 77.8 rvest asper 015 2E: 6.0	4134 - Aspen, Spruce/Fir n and maple and thin Road needed	Density Pole conifer compo	onent of	f white pine	e and balsam fir.			
Start Limit 54 Press Spec Othe Com Next Step Prop Start Limit 56 Press Spec Othe	Date: 10/01/20 ing Factor 63081054-Cut cription Final has s: <u>r</u> ment: s: <u>osed</u> Date: 10/01/20 ing Factor 63081056-Cut cription Thin pine	2E: 77.8 rvest asper 015 2E: 6.0	4134 - Aspen, Spruce/Fir n and maple and thin Road needed 42110 - Planted Red Pine	Density Pole conifer compo	onent of	f white pine	e and balsam fir.		4211 - Planted Red	Proposal Cmpt. Review
Start Limit 54 Press Spec Othe Com Next Step Prop Start Limit 56 Press Spec Othe	Date: 10/01/20 ing Factor 63081054-Cut cription Final have s: r ment: s: osed Date: 10/01/20 ing Factor 63081056-Cut cription Thin pine s: r ment: f ment:	2E: 77.8 rvest asper 015 2E: 6.0	4134 - Aspen, Spruce/Fir n and maple and thin Road needed 42110 - Planted Red Pine	Density Pole conifer compo	onent of	f white pine	e and balsam fir.		4211 - Planted Red	Proposal Cmpt. Review
Start Limit 54 Pres Spec Othe Com Next Step Prop Start Limit 56 Pres Spec Othe Com Next Step Prop Start Limit	Date: 10/01/20 ing Factor 63081054-Cut cription Final have s: r ment: s: osed Date: 10/01/20 ing Factor 63081056-Cut cription Thin pine s: r ment: f ment:	2E: 77.8 rvest asper 015 2E: 6.0 e to a resid	4134 - Aspen, Spruce/Fir n and maple and thin Road needed 42110 - Planted Red Pine	Density Pole conifer compo	onent of	f white pine	e and balsam fir.		4211 - Planted Red	Proposal Cmpt. Review

S t		Cadi	llac Mgt. Unit	Report 4		eatment Site Con	ts Prescribed Idition	l with	Compartment: 081 Year of Entry 2016	DNR DNR
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
61	63081061-Cut	8.6	42120 - Planted Jack Pine	High Density Pole	54	111- 140	Harvest	Clearcut	4212 - Planted Jack Pine	Cmpt. Review Proposal
Pres Spec		vest stand.	. Cut all jack, aspen,	and maple.						
<u>Othe</u> Com			vould be a mix of asp ed for access.	en/maple wit	th pine.					
<u>Next</u> Step										
	<u>osed</u> <u>Date:</u> 10/01/20	15								
<u>Limit</u>	ing Factor	2E:	Road needed							
73	63081073-Cut	19.1	4133 - Aspen, Mixed Pine	High Density Pole	53	51-80	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
Pres Spec		vest stand	leaving retention alo	ng lowland c	omplex t	to the west	t.			
<u>Othe</u> Com	<u>r</u> Temp bri <u>ment:</u>	idge neede	d for access.							
<u>Next</u> Step										
	<u>osed</u> <u>Date:</u> 10/01/20	15								
<u>Limit</u>	ing Factor	2D:	Portable Bridge Nee	ded (Dept. bi	ridge will	be adequ	ate)			
37	NF_63081037- Spray	0.7	6231 - Phragmites				Pesticide	Hand Sprayer	622 - Lowland Shrub	Cmpt. Review Proposal
Pres Spec	<u>cription</u> Herbicide <u>s:</u>	e for Phrag	mities Control							
<u>Othe</u> Com	<u>r</u> ment:									
<u>Next</u> Step										
	<u>osed</u> <u>Date:</u> Unspecif	ied								
	ing Factor	2G:	Too wet (sensitive so	oils, does no	t include	access is	sues)			
	Total Treatmen	ıt								

I otal Treatment Acreage Proposed: 252.5

Cadillac Mgt. Unit

Report 5 – Site Conditions

Jim Malloy : Examiner

Compartment 081 Year of Entry 2016

Availability for Management

		U							
Total	Acres	Acres	D	omina	nt Site	e Con	dition	S	
Acres	Available	Not Available		No	2H	2G	2E	2D	2A
358	207	151	Aspen	104	94	35	5	98	22
13	13		Hemlock				13		
9	9		Jack Pine				9		
15	14	0	Lowland Aspen/Balsam Poplar			0		14	
289	4	285	Lowland Conifers	3	5	280	1		
161	38	122	Lowland Deciduous	38		122			
123		123	Lowland Mixed Forest		123				
4	4		Mixed Upland Deciduous	4					
6		6	Northern Hardwood		5	0			
15		15	Paper Birch			15			
31	30	2	Red Pine			2	6	24	
38		38	Tamarack			38			
6	4	2	Upland Conifers			2		4	
55	53	3	Upland Mixed Forest	16		3	37		
11	4	7	Upland Spruce/Fir		7			4	
82	68	14	White Pine			3	26	41	11
1,216	448	768	Total Forested Acres	166	234	500	96	186	34
	37%	63%	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
001	Not Available	2G: Too wet (sensitive soils, does not include access issues)	1,221	2B: Unknown if access through adjacent landowner(s) is possible	2E: Road needed	2D: Portable Bridge Needed (Dept. bridge will be adequate)	5A: Not able to obtain desirable regeneration
(comments:						
002	Not Available	2A: Adjacent landowner denied access	40				
(comments:						

Available nments: Available	2D: Portable Bridge Needed (Dept. bridge will be adequate)	228			
Available	2E. Dood woods d				
	25: Deed peeds d				
	2E: Road needed	250	No Limiting Factor	No Limiting Factor	
nments:					
Available	2E: Road needed	99	No Limiting Factor	No Limiting Factor	
nments:					
Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	22	2D: Portable Bridge Needed (Dept. bridge will be adequate)	2E: Road needed	
nments:					
Not Available	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	8	2E: Road needed	2C: Engineered Bridge Needed (Dept. portable bridge not available or inadequate)	
nments:					
r	iments: lot Available iments: lot Available	Available 2E: Road needed Imments: Imments: Iot Available 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) Imments: Imments: Iot Available 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Available 2E: Road needed 99 Imments: 99 Iot Available 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) 22 Iot Available 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) 28 Iot Available 2H: Blocked by physical stand in a lowland area) 8	Available 2E: Road needed 99 No Limiting Factor Imments: Imments: 21: Blocked by physical obstacle (e.g. upland stand in a lowland area) 22: 2D: Portable Bridge Needed (Dept. bridge will be adequate) Imments: Imments: 22: 2D: Portable Bridge Needed (Dept. bridge will be adequate) Imments: Imments: 22: 2D: Portable Bridge Needed (Dept. bridge will be adequate) Imments: 24: Blocked by physical obstacle (e.g. upland stand in a lowland area) 8: 2E: Road needed	Available 2E: Road needed 99 No Limiting Factor No Limiting Factor Imments: Imment



Report 6 – 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 7 – 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.

Conservati Area	on Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physica sites of cultural and historical significance that may occur upon bottomlands. They include thousands of Native American settl and British outposts, nineteenth century logging camps, mine the Great Lakes, there are shipwrecks and other remains door be identified by Natural heritage data from the State Historic P this compartment will be implemented in such a manner as to the sensitive nature of this information, no further detail about	n terrestrial areas and Great Lakes lements and burial sites, as well as French s and homesteads. Beneath the waters of umenting the maritime trade. Such sites may reservation Office. Proposed treatments in maintain the integrity of these sites. Due to
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen co stocked trout populations and those of other coldwater fish sp year to year. Coldwater streams in Michigan typically provide t contributions of groundwater to their stream flows. Such stream designated as trout resources by Fisheries Order 210.	ecies (e.g., slimy sculpin) to persist from hese conditions due to substantial

S t	Cadillad	c Mgt. Unit		Report 8	- Forested	I Stands Compartment: 081 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
2	42200 - Natural White Pine	High Density Pole	11.2	54	81-110	
3	4130 - Aspen	High Density Sapling	19.7	15		Stand was cut with sale #63-102-96-01. Regeneration was spotty in some places. Scattered small (<.5ac) open areas.
4	4133 - Aspen, Mixed Pine	High Density Pole	2.7	54	81-110	Stand is a mix aspen and maple with balsam fir and white pine with red pine in the overstory. large amount of white pine blow down along edge.
5	4130 - Aspen	High Density Sapling	14.2	8		Stand was cut last entry. Access was through private as stand borders private to the west and the other three sides are surrounded by lowland complex.
6	6114 - Lowland Oak	High Density Pole	40.3	105	51-80	
7	6123 - Lowland Fir	High Density Pole	23.0	67		Stand is a lowland conifer with a small island of upland maple along the eastern edge.
8	4319 - Mixed Upland Forest	High Density Sapling	18.2	15		
10	4130 - Aspen	High Density Sapling	8.8	7		Stand was cut with sale #63-064-06-02. Regenerating well to aspen with a scattered maple component
11	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	89.3	104		Some of the cedar is starting to die out due to high water table. Stand borders Deadstream Creek to the south. All ash is dead/dying within stand.
12	6117 - Lowland Deciduous, Mixed Coniferous	High Density Sapling	26.8	35		pockets of cattails. very wet and borders Deadstream creek to the north,
14	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	4.5	68	51-80	mix of maple and spruce. no seed source for beech in understory. could be called retention for stand to the south in compartment 82 that was previously cut.
15	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	2.1	47		portion of stand to the south
16	4130 - Aspen	High Density Log	17.2	44		aspen and maple with scattered spruce. bordering lowland complex to the north. few scattered paper birch throughout and a few large white pine along the northern edge.
20	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	27.4	42	51-80	This portion of the stand was to wet to be harvested with the timber sale to the north.
21	4134 - Aspen, Spruce/Fir	High Density Sapling	42.4	15		recent cut. pockets of larger balsam fir with young aspen and maple. scattered oaks in the understory.

Cadillac Mgt. Unit

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Report 8 – Forested Stands

Compartment: 081 Year of Entry: 2016



General Comments: aspen stand was cut last entry. Stand was cut as part of sale to the south. a mix of various sized aspen clones, wet areas of tag scattered balsam fir and black spruce. A few cedars a present along the northern edge of the stand. mostly tamarack and tag alder. Close to being a non forested stand based on canopy closure. ad of balsam with a small amount of aspen and maple sirrounded by a large wetland complex.
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forested stand based on canopy closure.
e and balsam with an understory of tag alder, alder is ome areas. Beaver dam along north-western edge of stand.
opears to be an upland pocket along the edge of the am creek. A mix of Jack pine, balsam, black spruce, and white pines.
orders Deadstream Creek to the south. Pockets of along small rises with tag alder in between small rises.
was cut during previous habitat cut. Now birch with scattered balsam.
nd is a mix of balsam fir and paper birch with black d a few scattered cedars. Borders Deadstream Creek along nothern edge os the stand.
quaking aspen and maple with balsam fir understory.
is a small portion of the larger stand to the west in compartment 82.

S t	Cadillac	: Mgt. Unit		Report 8	– Forested	Stands Compartment: 081 Year of Entry: 2016
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	429 - Mixed Upland Conifers	High Density Pole	5.9	57	81-110	Stand can serve as retention for the larger harvest to the south that occured during the previous entry. Stand borders Deadstream Creek to the north.
45	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	12.5	109	51-80	Age based off of cedar in the adjacent compartment. This stand is a small portion of a larger stand to the west.
47	6130 - Fir, Aspen, Maple	High Density Pole	123.0	51	51-80	Stand is a transition area from the upland aspen stand to the east and the lowland complexes to the west and south.
49	4116 - Mixed N. Hardwood - Aspen	High Density Log	5.6	67	51-80	small island of maple with scattered aspen throughout. balsam fir understory is older than few scattered oaks and beech. no seed source for oak and beech in the stand.
51	6129 - Mixed Coniferous Lowland Forest	High Density Log	13.7	78	51-80	Small portion of larger stand to the north in compartment 80. Low quality lowland conifer that is seasonaly wet.
52	4130 - Aspen	High Density Sapling	28.5	7		Stand was cut with sale #63-030-06-01. overstory cherry was left following sale. a few scattered oak seedlings.
53	42330 - Upland Fir	High Density Pole	7.1	38	51-80	heavy to balsam fir with aspen. small pocket within the larger aspen stand that appears younger with a higher amount of balsam fir than the surrounding stand.
54	4134 - Aspen, Spruce/Fir	High Density Pole	77.8	56	51-80	stand is a mix of balsam fir with aspen and maple
55	4139 - Aspen, Mixed Deciduous	High Density Pole	5.5	49	51-80	New stand added. aspen and maple stand with scattered balsam fir understory.
56	42110 - Planted Red Pine	High Density Log	6.0	65	141-170	New stand added. appears to have been planted red pine with scattered aspen through stand.
57	4132 - Aspen, Jack Pine	High Density Sapling	49.2	7		Stand was cut with sale #63-030-06-01. Similar to stand 55 but with a higer amount of jack pine regeneration.
58	4319 - Mixed Upland Forest	High Density Pole	37.3	47	51-80	
59	42350 - Upland Hemlock	High Density Log	13.1	84	81-110	Stand of hemlock. growing well and healthy. scattered aspen throughout stand. Provides good winter cover for the deer.
60	42101 - Planted White Pine, Mixed Deciduous	High Density Pole	28.5	54	81-110	stand is mostly white pine poles.was planted. scattered aspen and paper birch through stand.
61	42120 - Planted Jack Pine	High Density Pole	8.6	54	111-140	Planted Jack Pine with a scattering of aspen and red maple throughout

S t a n d	Cadillac Mgt. Unit			Report 8	– Forested	Stands Compartment: 081 Year of Entry: 2016	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
65	42201 - Natural White Pine, Mixed Deciduous	High Density Pole	37.3	55	111-140	planted white pine with aspen and maple. growing well consider treatment next entry	
66	42200 - Natural White Pine	High Density Log	5.0	69	81-110	Stand is a high point of land with white pine surrounded by lowland.	
67	42210 - Natural Red Pine	Low Density Log	25.5	67	1-50	Stand was cut with sale #63-030-06-01 overstory red pine with aspen and red maple understory.	
70	6112 - Lowland Aspen	High Density Pole	14.5	43	51-80	Stand had a small portion cut during previous entry. This was the only commercialy harvestable area.	
71	4130 - Aspen	High Density Sapling	3.5	7		Stand was cut as part of sale 63-030-06-01, in progress of regenerating. Growing well.	
73	4133 - Aspen, Mixed Pine	High Density Pole	19.1	53	51-80		
75	42340 - Upland Spruce/Fir	High Density Pole	3.6	59	81-110	Stand of black spruce/balsam fir that is part of a larger stand to the south in compartment 85.	

Compartment: 081 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3301 - Low Density Deciduous Tree	6.6	No	Unspecified	really starting to fill in with white pine and aspen. may consider treatment to maintain opening.
9	6224 - Treed Bog	20.1	No	Unspecified	Scattered Blasam Fir
13	3105 - Mixed Upland Herbaceous	3.4	No	Unspecified	
17	6220 - Alder/willow	13.8	No	Unspecified	Tag alder with scattered cedars. Some cedar are dyting out likely due to high water levels.
18	6224 - Treed Bog	5.0	No	Unspecified	open area with scattered tamarack. bordering lowland complex to the west.
19	623 - Emergent Wetland	1.5	Unspecified	Unspecified	
25	6220 - Alder/willow	275.4	No	Unspecified	Tag alder, cattails and numerous beaver dams, lodges, and floodings.
26	6220 - Alder/willow	6.6	No	Unspecified	beaver flooding
28	6223 - Inundated Shrub Swamp	2.2	No	Unspecified	
34	6220 - Alder/willow	135.0	No	Unspecified	Multipule old beaver dams and floodings of minimal drainage. Large areas of tag alder and cattails.
37	6231 - Phragmites	0.7	No	Unspecified	
38	3303 - Mixed Low Density Trees	58.9	No	Unspecified	Stand is a mix of red maple and swamp conifers with tag alder.
43	310 - Herbaceous Openland	7.4	Unspecified	Unspecified	
46	6223 - Inundated Shrub Swamp	23.7	No	Unspecified	flooded out spruce and tamarack. scattered tag alder.
48	6220 - Alder/willow	91.8	No	Unspecified	larger size tag alder throughout stand
50	6220 - Alder/willow	36.6	No	Unspecified	Stand contains an oil well pad. This well is located the furthest south of any well west of the pipeline in this field. Well pad is the only high ground within this stand.
62	3102 - Grass	49.6	No	Unspecified	Pipeline ROW

Cadillac Mgt. Unit

Report 9 – Nonforested Stands

Compartment: 081 Year of Entry: 2016



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:	
63	50 - Water	21.1	Unspecified	Unspecified		
64	6229 - Mixed lowland shrub	22.7	No	Unspecified	smaller tag alder and cattails	
68	622 - Lowland Shrub	28.5	Unspecified	Unspecified		
69	3302 - Low Density Conifer Trees	11.1	Unspecified	Unspecified		
72	50 - Water	4.2	Unspecified	Unspecified		
74	622 - Lowland Shrub	3.0	Unspecified	Unspecified		