



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 125

Entry Year 2015

Acreage: 4,427

County Presque Isle

Management Area: Kirtland's Warbler

Revision Date: 10/31/2013

Stand Examiner: Jeff Autenrieth

Legal Description:

T33N R2E SEC. 27, 28, 29, 33, 34, 35& 36. T33N R3E SEC. 31 & 32.

Identified Planning Goals:

Kirtland's Warbler Management and other wildlife habitat. Several recreational snowmobile trails, ORV trails, and the High Country Pathway are all present in this compartment.

Soil and topography:

Grayling Sands on outwash plains on southern portion of compartment. Rolling hills have better quality soils moving northwest. The Tomahawk drainage is associated with organic soils, and glacially filled sinkholes are associated with wet sands.

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

Mostly surrounded by state land with the Canada Creek Ranch hunt club to the east. There is a no camping designation from a Director's Order near the flooding outside of the designated campground.

Unique Natural Features:

There are at least two sinkholes. Many wildlife species including the Kirtland's Warbler, Loon, Osprey, and Bald Eagle may be found here. Dry site prairie plants and animals as well. Hill's Thistle and Alleghany Plum are found here.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Several Kirtland's Warbler management units are found here. This bird is an endangered species, and has its own management plan. Recent harvest activities have altered the view of the landscape some.

Watershed and Fisheries Considerations:

Multiple cuts planned near Tomahawk Flooding, best management practices near the riparian should be maintained, selective cuts could be used if warranted in the riparian (stand 56)

Wildlife Habitat Considerations:

This compartment is within the Clear Lake Kirtland's Warbler Management Area and Kirtland's warbler is a featured species for which early successional jack pine is critical to breeding success. Young jack pine also benefits white-tailed deer and snowshoe hare, which are also featured species here. Ruffed grouse are also found in the aspen cover types. Management should be consistent with the Kirtland's Warbler Management Plan.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured glacial till. The glacial drift thickness varies between 100 and 200 feet. Beneath the glacial drift is the Devonian Traverse Group. The Traverse is quarried for clay/shale and limestone/cement products near Alpena. The nearest gravel pit is located one mile to the northwest and potential should be good. This area has had limited drilling for Silurian Guelph (Niagaran) Reefs, with production occurring to the northwest. Additional drilling is possible but unlikely. The Antrim Shale is not present. The entire Compartment is leased for oil and gas development

Vehicle Access:

Vehicle access is very good.

Survey Needs:

No surveys needed at this time.

Recreational Facilities and Opportunities:

The Tomahawk campground is located within this compartment as well as a DNR boat launch. There are several ORV trails throughout the compartment. Fishing and hunting are popular activities as well as bird watching for the Osprey and Eagles.

Fire Protection:

Adequate. Large scale immature-mature jackpine plantations exist within this compartment.

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**

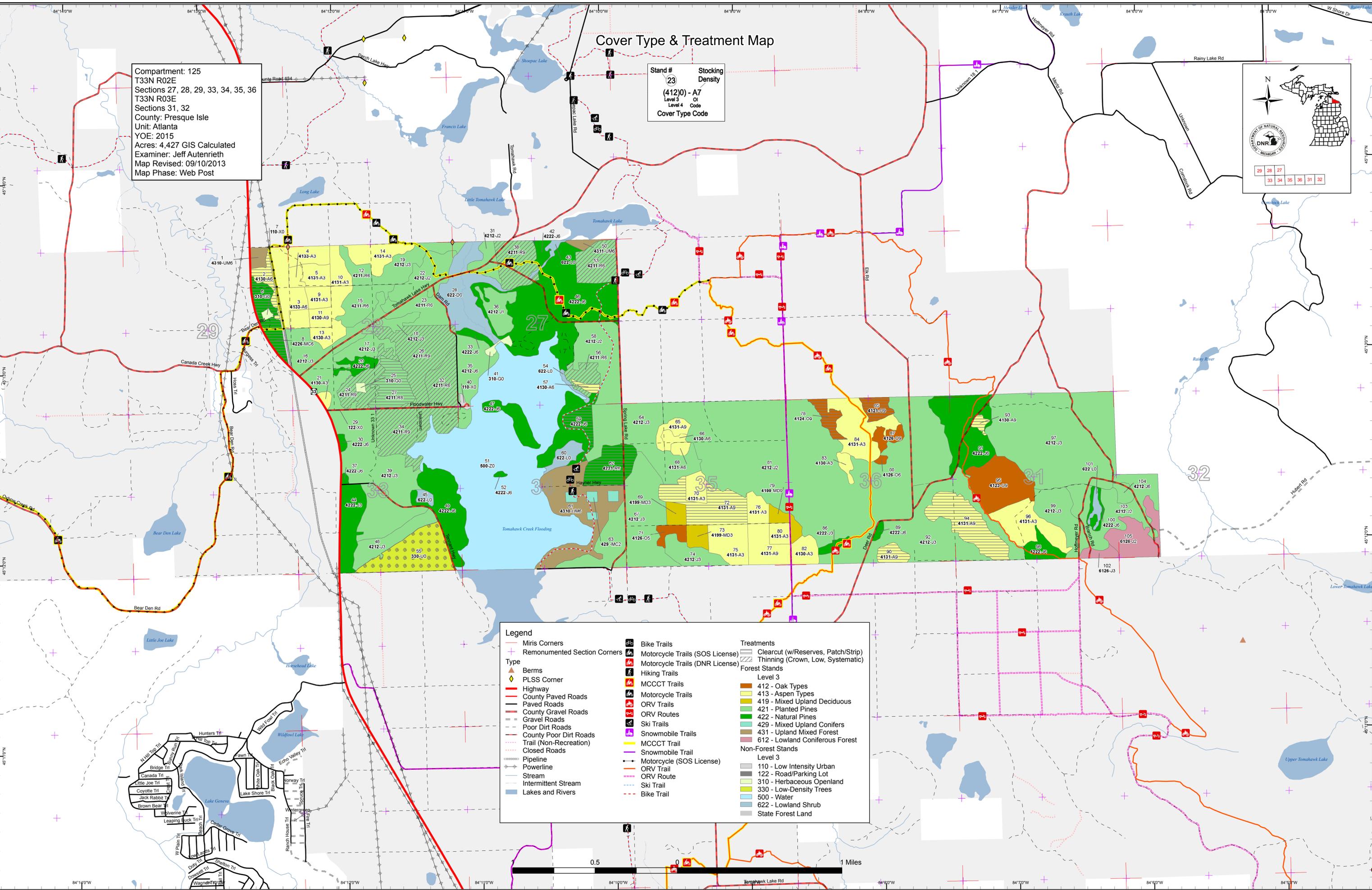
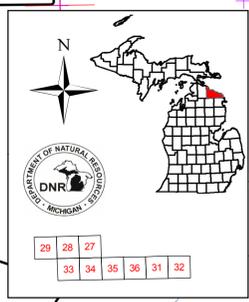
The following information is displayed, where pertinent, on the attached compartment maps:

- 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: 125
 T33N R02E
 Sections 27, 28, 29, 33, 34, 35, 36
 T33N R03E
 Sections 31, 32
 County: Presque Isle
 Unit: Atlanta
 YO: 2015
 Acres: 4,427 GIS Calculated
 Examiner: Jeff Autenrieth
 Map Revised: 09/10/2013
 Map Phase: Web Post

Stand #
 23
 Stacking Density
 (412)0 - A7
 Level 3
 Code
 Cover Type Code



Legend

<ul style="list-style-type: none"> ◆ Miris Corners ◆ Remonumented Section Corners ◆ Berms ◆ PLSS Corner — Highway — County Paved Roads — Paved Roads — County Gravel Roads — Gravel Roads — Poor Dirt Roads — County Poor Dirt Roads — Trail (Non-Recreation) — Closed Roads — Pipeline — Powerline — Stream — Intermittent Stream — Lakes and Rivers 	<ul style="list-style-type: none"> 🚲 Bike Trails 🏍️ Motorcycle Trails (SOS License) 🏍️ Motorcycle Trails (DNR License) 🚶 Hiking Trails 🏍️ MCCCT Trails 🏍️ Motorcycle Trails 🏍️ ORV Trails 🏍️ ORV Routes 🚶 Ski Trails 🏍️ Snowmobile Trails 🏍️ MCCCT Trail 🏍️ Snowmobile Trail 🏍️ Motorcycle (SOS License) 🏍️ ORV Trail 🏍️ ORV Route 🏍️ Ski Trail 🚲 Bike Trail 	<ul style="list-style-type: none"> ▭ Treatments ▭ Clearcut (w/Reserves, Patch/Strip) ▭ Thinning (Crown, Low, Systematic) ▭ Forest Stands Level 3 412 - Oak Types 413 - Aspen Types 419 - Mixed Upland Deciduous 421 - Planted Pines 422 - Natural Pines 429 - Mixed Upland Conifers 431 - Upland Mixed Forest 612 - Lowland Coniferous Forest Non-Forest Stands Level 3 110 - Low Intensity Urban 122 - Road/Parking Lot 310 - Herbaceous Openland 330 - Low-Density Trees 500 - Water 622 - Lowland Shrub State Forest Land
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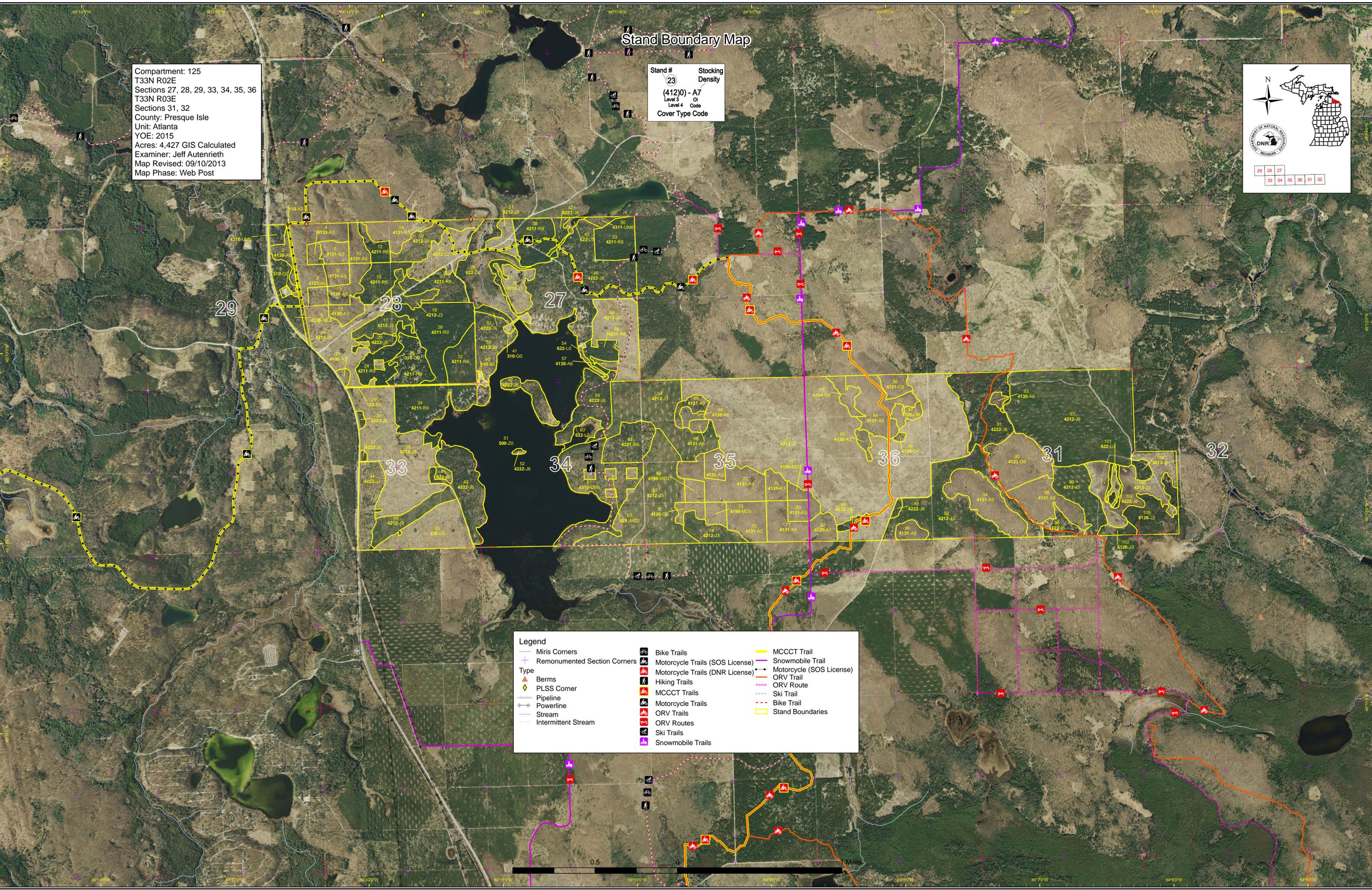
Stand Boundary Map

Compartment: 125
 T33N R02E
 Sections 27, 28, 29, 33, 34, 35, 36
 T33N R03E
 Sections 31, 32
 County: Presque Isle
 Unit: Atlanta
 YOE: 2015
 Acres: 4,427 GIS Calculated
 Examiner: Jeff Autenrieth
 Map Revised: 09/10/2013
 Map Phase: Web Post

Stand #
 23
 Stocking
 Density
 (412)0 - A7
 Level 5
 Level 4
 Code
 Cover Type Code

DEPARTMENT OF NATURAL RESOURCES
 DNR
 MICHIGAN

29 28 27
 33 34 35 36 31 32



Legend

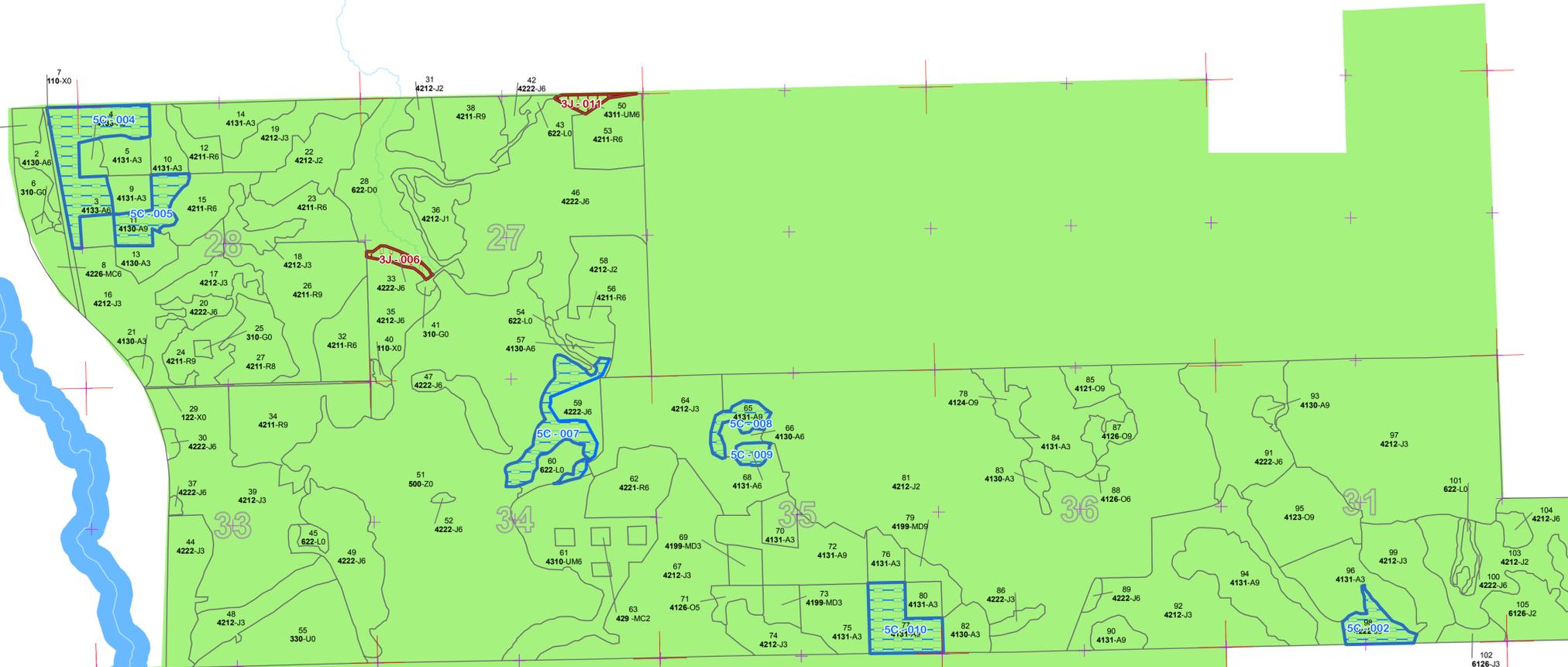
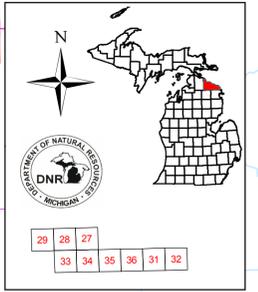
— Miris Corners	🚲 Bike Trails	— MCCCT Trail
⊕ Remonumented Section Corners	🏍️ Motorcycle Trails (SOS License)	— Snowmobile Trail
Type	🏍️ Motorcycle Trails (DNR License)	🏍️ Motorcycle (SOS License)
▲ Berms	🚶 Hiking Trails	🏍️ ORV Trail
◆ PLSS Corner	🚲 MCCCT Trails	— ORV Route
— Pipeline	🏍️ Motorcycle Trails	— Ski Trail
— Powerline	🏍️ ORV Trails	— Bike Trail
— Stream	🏍️ ORV Routes	— Stand Boundaries
— Intermittent Stream	🚶 Ski Trails	
	🏍️ Snowmobile Trails	



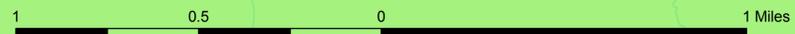
Special Conservation Areas & Site Conditions Map

Compartment: 125
 T33N R02E
 Sections 27, 28, 29, 33, 34, 35, 36
 T33N R03E
 Sections 31, 32
 County: Presque Isle
 Unit: Atlanta
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Stand #
 23
 Stocking
 Density
 (412)0 - A7
 Level 5
 Level 4
 Code
 Cover Type Code



- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Site Condition Available
 - Available w/ Constraints (Factor - Number)
 - Unavailable (Factor - Number)
 - Dedicated Special Conservation Areas
 - High Priority Trout Stream Buffer
 - Cold Water Lakes
 - Cold Water Streams
 - Essential Habitat (Kirtland Warbler)
 - Stand Boundaries



84°15'0"W 84°13'0"W 84°12'0"W 84°11'0"W 84°10'0"W 84°9'0"W 84°8'0"W 84°7'0"W 84°6'0"W 84°5'0"W

Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit

Compartment 125 Year of Entry 2015

Jeffrey Autenrieth : Examiner



	Age Class													Total	
	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 +		Uneven Age
Aspen	43	140	119	0	7	153	33	80	0	0	0	0	0	0	575
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Jack Pine	1044	548	300	0	380	119	0	50	0	0	0	0	0	0	2441
Low-Density Trees	65	0	0	0	0	0	0	0	0	0	0	0	0	0	65
Lowland Shrub	32	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Mixed Upland Deciduous	0	0	22	0	0	0	0	12	0	0	0	0	0	0	34
Natural Mixed Pines	0	0	0	0	0	0	29	0	0	0	0	0	0	0	29
Oak	0	0	0	0	0	0	0	111	0	0	0	0	0	0	111
Red Pine	0	0	0	0	78	339	0	39	0	0	0	0	0	0	457
Treed Bog	69	0	0	0	0	0	0	0	0	0	0	0	0	0	69
Upland Conifers	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Upland Mixed Forest	0	0	0	0	0	8	0	96	0	0	0	0	0	0	104
Urban	13	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Water	478	0	0	0	0	0	0	0	0	0	0	0	0	0	478
Total	1762	688	441	0	465	619	62	389	0	0	0	0	0	0	4427



Report 2 – Proposed Treatment Summaries

Atlanta Mgt. Unit
Year of Entry 2015

Compartment 125
Total Compartment Acres: 4,427

Acres by Treatment Type

Commercial Harvest - 600 Tree Planting - 74 Other - 0
 Habitat Cut - 0 Opening Maintenance - 0

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Aspen Types	147	0	0	0	0	0	147
Natural Pines	86	0	0	0	0	0	86
Oak Types	28	0	0	0	0	0	28
Planted Pines	35	0	0	0	304	0	339
Total	296	0	0	0	304	0	600



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	54125002-Cut	11.9	4130 - Aspen	High Density Pole	61	81-110	Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> Final harvest. Leave 3-10% retention along road if possible. Follow trail specs when setting up sale.										
<u>Specs:</u>										
<u>Other</u> Scots pine present in adjacent stands.										
<u>Comments:</u>										
<u>Next</u> Accpetable regen can be of medium to well stocked aspen, or pine. Apply use of herbicide/mechanical/or Rx burn to remove Scots pine if										
<u>Steps:</u> present.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
8	54125008-Cut	29.3	42260 - Natural Pine, Mixed Deciduous	High Density Pole	61	141-170	Harvest	Clearcut with Reserves	4133 - Aspen, Mixed Pine	Cmpt. Review Proposal
<u>Prescription</u> Final harvest. Cut all trees 2" in diameter or larger. Tops must be chipped. No retention to remove Scots pine present in stand. Follow trail specs										
<u>Specs:</u> when setting up sale. Leave stumps no higher than 6" for all trees.										
<u>Other</u> Scots pine present in stand.										
<u>Comments:</u>										
<u>Next</u> Acceptable regen can be on a medium to well stocked stand of aspen, oak, red pine, white pine, or jack pine. write FTP immediately after sale is										
<u>Steps:</u> complete to root rake/roller chop/herbicide/and trench and plant to red pine.										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
24	54125024-Cut	31.9	42110 - Planted Red Pine	High Density Log	57	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Third row thin.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
26	54125026-Cut	75.9	42110 - Planted Red Pine	High Density Log	56	200+	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Third row thin.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
27	54125027-Cut	35.0	42110 - Planted Red Pine	Medium Density Log	56	111-140	Harvest	Clearcut with Reserves	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Final harvest. Tops must be chipped. Cut all trees 2" in diameter or larger. Leave 3-10% retention in a pocket.										
<u>Specs:</u>										
<u>Other</u> Parts of plantation failed, creating many open grown trees or poor quality.										
<u>Comments:</u>										
<u>Next</u> Replant to red pine. Acceptable regen is of a medium to well stocked red pine.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
32	54125032-Cut	32.5	42110 - Planted Red Pine	High Density Pole	57	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Third row thin.

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2014

34	54125034-Cut	69.9	42110 - Planted Red Pine	High Density Log	56	200+	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Third row thin. Buffer and place retention on east side of stand along the camp ground. Do not harvest within 150 feet of camp ground.

Specs:

Other

Tomahawk Creek Flooding campground on east end of stand.

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2014

38	54125038-Cut	41.0	42110 - Planted Red Pine	High Density Log	56	141-170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Third row thin. Follow trail specs when setting up sale.

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2014

53	54125053-Cut	36.6	42110 - Planted Red Pine	High Density Pole	56	111-140	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Third row thin.

Specs:

Other

Powerline along northwest corner.

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2014



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
56	54125056-Cut	16.3	42110 - Planted Red Pine	High Density Pole	51	141-170	Harvest	Systematic Thinning	42120 - Planted Jack Pine	Cmpt. Review Proposal

Prescription Third row thin. Leave buffer along lake, and steep areas along lake.

Specs:

Other

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2014

57	54125057-Cut	4.3	4130 - Aspen	High Density Pole	51		Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
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Prescription Final harvest. Leave 1-2 oak per acre. No retention due to small size of stand.

Specs:

Other

Comments:

Next

Acceptable regen can be of a medium to well stocked aspen, oak, or pine stand.

Steps:

Proposed

Start Date: 10/01/2014

59	54125059- Cut_small	17.6	42220 - Natural Jack Pine	High Density Pole	71		Harvest	Clearcut	4212 - Planted Jack Pine	Cmpt. Review Proposal
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Prescription Cut all trees 2" in diameter or bigger. Tops must be chipped. Final harvest east of the High Country pathway. Do not cut on slopes on the west part of the stand. Follow treatment boundary.

Specs:

Other

Comments:

Next

Acceptable regen can be of well.medium stocked jack pine and oak.

Steps:

Proposed

Start Date: 10/01/2014

62	54125062-Cut	39.1	42210 - Natural Red Pine	High Density Pole	76	141-170	Harvest	Clearcut with Reserves	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Final harvest. Whole tree skid to scarify. Leave 3-10% retention pocket. Tops must be chipped. Cut all trees 2" in diameter and bigger.

Specs:

Other

Comments:

Next

Acceptable regen can be of medium to well stocked oak and pine. Apply herbicide/mechanical/or Rx burn for scarification should logging operations fail to do so. Replant to red pine.

Steps:

Proposed

Start Date: 10/01/2014



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
72	54125072-Cut	56.2	4131 - Aspen, Oak	High Density Log	57	51-80	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription</u> Final harvest.										
<u>Specs:</u>										
<u>Other</u> Leave 3-10% retention in a pocket.										
<u>Comments:</u>										
<u>Next</u> Acceptable regen can be a medium to well stocked stand of aspen, oak, or maple.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
78	54125078-Cut	14.0	4124 - Red with White Oak	High Density Log	72	51-80	Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest. Leave 1-3 vigorous oak per acre. Whole tree skid.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Acceptable regen can be od medium to well stocked oak and aspen.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
85	54125085-Cut	13.9	4121 - Oak, Aspen	High Density Log	72	141-170	Harvest	Clearcut with Reserves	4121 - Oak, Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest. Leave 1-3 oak per acre and retention area of 3-10%. Follow trail specs when setting up sale.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Regen survey. Acceptable regen can be of well/medium stocked aspen and oak.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
90	54125090-Cut	11.5	4131 - Aspen, Oak	High Density Log	71		Harvest	Clearcut	4131 - Aspen, Oak	Cmpt. Review Proposal
<u>Prescription</u> Final harvest. No retention due to small size of stand.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Acceptable regen can be of medium to well stocked aspen and oak.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										
93	54125093-Cut	4.8	4130 - Aspen	High Density Log	73		Harvest	Clearcut	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Final harvest. No retention due to small size of stand.										
<u>Specs:</u>										
<u>Other</u> Big aspen is starting to die and fall over.										
<u>Comments:</u>										
<u>Next</u>										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2014										

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	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
94	54125094-Cut	58.4	4131 - Aspen, Oak	High Density Log	70		Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal

Prescription Final harvest. Leave 1-3 oak per acre. Leave a 3-10% pocket of retention.

Specs:

Other

Comments:

Next Acceptable regen can be of medium to well stocked oak and aspen.

Steps:

Proposed

Start Date: 10/01/2014

**Total Treatment
Acreage Proposed: 600.1**

S
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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Type!

#Type!

Prescription
Specs:

Other
Comment:

Next
Steps:

Proposed
Start Date: #Type!

Limiting Factor

Total Treatment
Acreage Proposed: 0.0

Report 5 – Site Conditions

Atlanta Mgt. Unit
Jeff Autenrieth : Examiner

Compartment 125
Year of Entry 2015

Availability for Management

Total Acres			Dominant Site Conditions		
Acres	Available	Not Available	No	5C	3J
575	575		Aspen	456	119
2440	2434	6	Jack Pine	2,385	50
34	34		Mixed Upland Deciduous	34	
29	29		Natural Mixed Pines	29	
111	111		Oak	111	
457	457		Red Pine	457	
10	10		Upland Conifers	10	
104	99	5	Upland Mixed Forest	99	5
3,761	3,749	11	Total Forested Acres	3,581	168
	100%	0%	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
002	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16				
Comments:							
004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	50				
Comments: Cutting is being done to stands to the west, and stands to the east and south have already been harvested.							
005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21				
Comments: Surrounding stands are will be or have been cut in the past.							

Report 5 – Site Conditions

Atlanta Mgt. Unit
Jeff Autenrieth : Examiner

Compartment 125
Year of Entry 2015

006	Not Available	3J: Water quality / BMPs (stream, river, or lake)	6	1C: Other dept or div proc/practices
Comments: Stands is on a sandy slope which if harvested could create erosion and sand getting into Tomahawk Creek.				
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	
Comments: Surrounding stands have been or will be cut. Stand also buffers flooding.				
008	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	12	
Comments: Surrounding stands have all been harvested. Stand creates a shelter island in the middle of a large jack pine clearcut.				
009	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	No Limiting Factor
Comments: All other surrounding stands have been cut and planted to jack pine. Stand creates a shelter island.				
010	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	
Comments: Only stand of mature aspen left in section. All other stands have been or will be harvested.				
011	Not Available	3J: Water quality / BMPs (stream, river, or lake)	5	
Comments: Stand is on a slope that buffers Tomahawk lake.				



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 – 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
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	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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.

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Report 8 – Forested Stands

Compartment: 125
Year of Entry: 2015

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4310 - Pine, Oak Mix	High Density Pole	7.8	52		
4130 - Aspen	High Density Pole	11.9	61	81-110	
4133 - Aspen, Mixed Pine	High Density Pole	50.0	55	81-110	
4133 - Aspen, Mixed Pine	High Density Sapling	7.1	14		
4131 - Aspen, Oak	High Density Sapling	14.4	5		
42260 - Natural Pine, Mixed Deciduous	High Density Pole	29.3	61	141-170	Scotch pine present.
4131 - Aspen, Oak	High Density Sapling	12.2	14		
4131 - Aspen, Oak	High Density Sapling	15.1	14		
4130 - Aspen	High Density Log	21.1	66		
42110 - Planted Red Pine	High Density Pole	14.2	46	111-140	Has been first row thinned.
4130 - Aspen	High Density Sapling	23.3	14		
4131 - Aspen, Oak	High Density Sapling	28.3	5		Scattered w. and j. pine.
42110 - Planted Red Pine	High Density Pole	30.0	41	111-140	Has been third row thinned.
42120 - Planted Jack Pine	High Density Sapling	77.1	3		Pole size oak left after harvest. Sap oak and pockets of j. pine are natural recruits.
42120 - Planted Jack Pine	High Density Sapling	20.5	16		
42120 - Planted Jack Pine	High Density Sapling	15.6	16		
42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	34.7	15		
42220 - Natural Jack Pine	High Density Pole	11.5	40		Some blow down in stand.

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Report 8 – Forested Stands

Compartment: 125

Year of Entry: 2015



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4130 - Aspen	High Density Sapling	3.9	14		Natural recruit from clear cut. Adjacent stands are planted jack pine.
42120 - Planted Jack Pine	Medium Density	41.4	3		
42110 - Planted Red Pine	High Density Pole	34.1	40	111-140	
42110 - Planted Red Pine	High Density Log	31.9	57	171-200	
42110 - Planted Red Pine	High Density Log	75.9	56	200+	
42110 - Planted Red Pine	Medium Density Log	35.2	56	111-140	Failed plantation? Check for cutting record.
42220 - Natural Jack Pine	High Density Pole	3.0	57		Left as retention or buffer along road from adjacent final harvest.
42120 - Planted Jack Pine	Medium Density	16.9	3		Barely 3' tall.
42110 - Planted Red Pine	High Density Pole	32.5	57	171-200	Natural oak and j. pine. R. pine trees have low vigor, has not been thinned.
42220 - Natural Jack Pine	High Density Pole	5.9	59		Stand slopes down towards wetland. Tag alder located primarily there.
42110 - Planted Red Pine	High Density Log	69.9	56	200+	
42121 - Planted Jack Pine, Mixed Deciduous	High Density Pole	46.8	48		Buffers lake from road.
42120 - Planted Jack Pine	Low Density Sapling	25.2	3		
42220 - Natural Jack Pine	High Density Pole	1.8	57		Left as retention or to buffer road from adjacent clear cuts.
42110 - Planted Red Pine	High Density Log	41.0	56	141-170	
42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	149.1	3		Lots of natural jack pine recruits. Oak doing well.
42220 - Natural Jack Pine	High Density Pole	7.3	49		
42220 - Natural Jack Pine	High Density Sapling	40.7	22		Buffer along road.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	42220 - Natural Jack Pine	High Density Pole	183.6	49		Some blowdown.
47	42220 - Natural Jack Pine	High Density Pole	22.0	45		
48	42120 - Planted Jack Pine	High Density Sapling	32.7	16		
49	42220 - Natural Jack Pine	High Density Pole	61.4	47		Aspen sprouted due to adjacent clear cut and is most common on the south side of the stand along tennent highway.
50	4311 - Pine, Aspen Mix	High Density Pole	5.4	72		Stand has powerline that runs through it. Acts as a buffer along the riparian zone. Slopes down towards the lake.
52	42220 - Natural Jack Pine	High Density Pole	1.4	45		
53	42110 - Planted Red Pine	High Density Pole	36.6	56	111-140	Check previous age. 40?
56	42110 - Planted Red Pine	High Density Pole	16.3	51	141-170	
57	4130 - Aspen	High Density Pole	4.3	51		
58	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density	65.1	5		
59	42220 - Natural Jack Pine	High Density Pole	50.4	71		Stand is along shoreline. Pockets of heavier oak and aspen. Inlet along south of stand creates a good wetland/forest edge. Buffers lake.
61	4310 - Pine, Oak Mix	High Density Pole	90.9	73	81-110	New stand added. Has five spot cut within stand.
62	42210 - Natural Red Pine	High Density Pole	39.1	76	141-170	
63	429 - Mixed Upland Conifers	Medium Density	9.9	7		
64	42120 - Planted Jack Pine	High Density Sapling	104.5	16		Stand had Rx burn before planting.
65	4131 - Aspen, Oak	High Density Log	11.5	53	81-110	Advanced regen.
66	4130 - Aspen	High Density Pole	6.7	42		New stand added.
67	42120 - Planted Jack Pine	High Density Sapling	134.4	14		

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Report 8 – Forested Stands

Compartment: 125
Year of Entry: 2015

Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4131 - Aspen, Oak	High Density Pole	5.2	73	51-80	New stand added.
4199 - Other Mixed Upland Deciduous	High Density Sapling	10.4	20		
4131 - Aspen, Oak	High Density Sapling	13.8	20		
4126 - White, Black, N. Pin Oak	Medium Density Pole	10.0	70	1-50	Recent harvest.
4131 - Aspen, Oak	High Density Log	56.2	57	51-80	
4199 - Other Mixed Upland Deciduous	High Density Sapling	11.4	20		
42120 - Planted Jack Pine	High Density Sapling	25.5	14		
4131 - Aspen, Oak	High Density Sapling	33.8	26		
4131 - Aspen, Oak	High Density Sapling	14.1	14		
4131 - Aspen, Oak	High Density Log	30.8	57		
4124 - Red with White Oak	High Density Log	14.0	72	51-80	
4199 - Other Mixed Upland Deciduous	High Density Log	12.3	70		
4131 - Aspen, Oak	High Density Sapling	10.5	14		
42121 - Planted Jack Pine, Mixed Deciduous	Medium Density	591.6	2		Stand swapped from Non-Forested to Forested.
4130 - Aspen	High Density Sapling	16.6	29		
4130 - Aspen	High Density Sapling	6.9	26		
4131 - Aspen, Oak	High Density Sapling	54.2	14		
4121 - Oak, Aspen	High Density Log	13.9	72	141-170	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
86	42220 - Natural Jack Pine	High Density Sapling	6.4	28		Has been burned in the past. Some natural openings.
87	4126 - White, Black, N. Pin Oak	High Density Log	11.2	73	51-80	Camping spot for hunters. Aspen regen in pockets of open canopy.
88	4126 - White, Black, N. Pin Oak	High Density Pole	2.1	73	51-80	
89	42220 - Natural Jack Pine	High Density Pole	3.1	46	111-140	Left as retention for adjacent clear cut.
90	4131 - Aspen, Oak	High Density Log	11.5	71		
91	42220 - Natural Jack Pine	High Density Pole	77.1	56	81-110	Surrounding stands have all been cut/planted.
92	42120 - Planted Jack Pine	High Density Sapling	126.4	14		
93	4130 - Aspen	High Density Log	4.8	73		Pocket of aspen surrounded by jack pine plantings. Previous inventory states stand is used by wildlife for cover/food. Rotten heartwood hard to get a good core for age.
94	4131 - Aspen, Oak	High Density Log	58.4	70		
95	4123 - Red Oak	High Density Log	60.3	71	111-140	New stand added.
96	4131 - Aspen, Oak	High Density Sapling	48.3	25		
97	42120 - Planted Jack Pine	High Density Sapling	252.5	20		
98	42220 - Natural Jack Pine	High Density Pole	16.4	59		Some blowdoown. Openings with cherry/grass.
99	42120 - Planted Jack Pine	High Density Sapling	45.6	19		New stand added.
100	42220 - Natural Jack Pine	High Density Pole	7.0	51		Left as buffer around wetland. DO NOT CUT.
102	6126 - Lowland Jack Pine	High Density Sapling	8.3	19		Lowland in most of stand but some high sand ridges.
103	42120 - Planted Jack Pine	Medium Density	77.5	3		Some natural recruits.
104	42120 - Planted Jack Pine	High Density Pole	7.5	50		

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Report 8 – Forested Stands

Compartment: 125
Year of Entry: 2015



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
105	6126 - Lowland Jack Pine	Medium Density	42.8	47		Some blow down. Very Wet! L type in understory. Tag alder in pockets in areas that are wetter.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
6	3102 - Grass	2.1	Unspecified	Unspecified	
7	11 - Low Intensity Urban	8.2	Unspecified	Unspecified	
25	3102 - Grass	2.2	Unspecified	Unspecified	
28	6224 - Treed Bog	68.9	Unspecified	Unspecified	
29	122 - Road/Parking Lot	3.2	Unspecified	Unspecified	
40	11 - Low Intensity Urban	2.1	No	Unspecified	Boat launch and parking lot.
41	3102 - Grass	4.0	Unspecified	Unspecified	
43	6229 - Mixed lowland shrub	5.2	Unspecified	Unspecified	
45	6229 - Mixed lowland shrub	4.8	Unspecified	Unspecified	
51	50 - Water	477.8	Unspecified	Unspecified	
54	6229 - Mixed lowland shrub	3.2	Unspecified	Unspecified	
55	3302 - Low Density Conifer Trees	65.2	Plantation	Jack Pine	Planted in 2009 to jack pine.
60	6229 - Mixed lowland shrub	13.0	Unspecified	Unspecified	
101	6229 - Mixed lowland shrub	5.7	Unspecified	Unspecified	