

Beltrami County NRM Timber Appraisal

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Appraised By: Marshall Graham	Sale Type: SEALED BID-REGULAR	Appraisal Number: Mixed Six Pack
Appraisal Date: 01/31/2024	Auction Date: 04/02/2024	Permit Number:
	Access: Private Access	Expiration Date: 04/02/2026

Landings, Access Roads, and Skid Trails

- Landings Approved – Landing locations must be approved in advance by the Forester. Sale plan includes 4 landings
- Roads stay open - Sale is mostly accessible via existing road system. Roads to remain open and in pre-existing or better condition with BMP drainage after use.

Other Remarks

Cut all Balsam fir with witches broom in them.

Permits Required

- Written Permission to Bid - Written signed permission from a land owner with viable access must be provided to bid on this sale.

Site, Soil, and Water Protection

- Rutting - Contractor must be prepared to shut down equipment operations or hauling if thawing or wet conditions create the potential for rutting. Failure to comply with this requirement may be subject to a \$100 penalty per occurrence.

Slash Disposal

- Slash Scattered - Lop and scatter slash or a few piles can be left for hare habitat. Piles should be about 10' x 10' by 5 feet high .

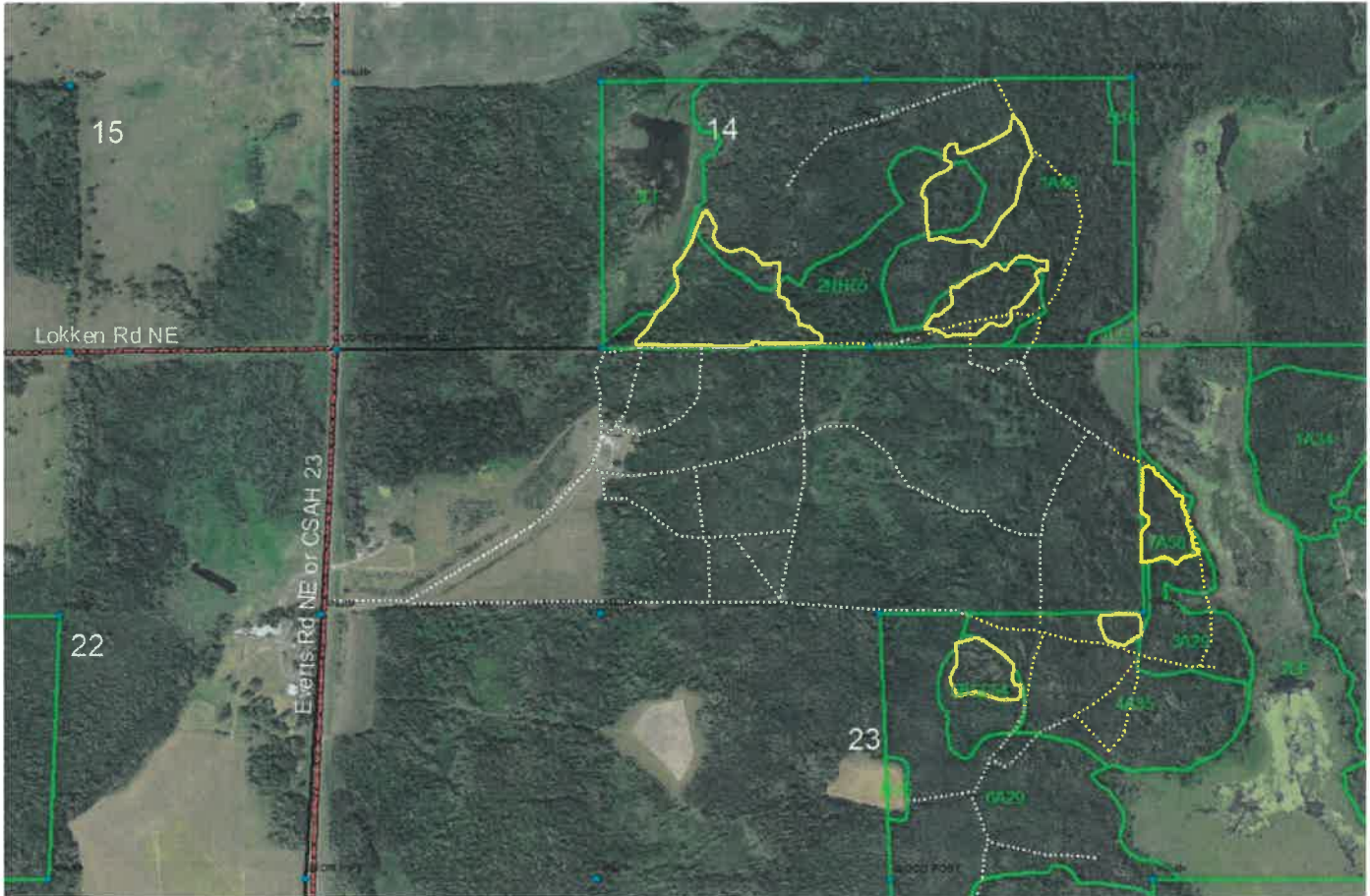
Tree Size, Marketing, and Special Conditions

- 4 inch TDIB -- Utilize all material from butt to a 4" top diameter inside bark.
- Private Wood – There is a strip of private wood along part of the sale boundary that is NOT part of this sale. If the landowner sells this wood to you, to comply with Chain of Custody requirements of our certifying organization, the private wood must not be mixed or hauled with the County wood.

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Site Map:



Appraisal examined and approved by

Marshall Graham
Forester

2-13-24

Date

Appraisal examined and approved by

Richard A. Moore
Land Department

2/14/2024

Date

STAND HARVEST PRESCRIPTIONS

Timber Sale Name:	Mixed Six Pack						
Description:							
RE Code	Sec.	Twp.	Rge.	School	City/Twp	Subd	
160017600	14	149	32	32	Hagali	South 1/2	
160027300	23	149	32	32	Hagali	NE of the NE	
160027300	23	149	32	32	Hagali	SW of the NE	
Block:	1						
Stand Details							
Section	Township	Range	Timber Type	Acres	Stand Age	NPC	Harv Meth Desc
14	149	32	20	12	52	MHn44	Clear Cut w/Reserves
*NPC	MHn44 - Northern Wet-Mesic Boreal Hardwood-Conifer Forest						
Basal Area Information							
Species Code	Species Name		BA	Res BA			
50	Ash, Black		86	5			
Total BA: 86			Res BA: 5		% BA: 5.81		
Current Site Conditions	Current CTYPE is Northern Hardwood, with SI 55, and overall BA of 86 sq.ft./ac.						
Insect/Disease	EAB - harvest to reduce potential of EAB infestation in Ash						
Timber Objectives	Clear Cut with Reserves – Even-aged regeneration with some reserves for stand structure, habitat or natural seeding of some species. Encourage aspen regen.						
Regeneration	Aspen regeneration will be primary, with some seeding from reserve species and some stump sprouting to add diversity						
Riparian	RMZ and Filter Strip mostly excluded from harvest boundary, or protected by sale design.						
Wetlands	Wetland Harvest - part of the harvest block is a forested wetland, minimize scarification throughout, frozen and/or snow cover is necessary.						
Soil Types	sandy loam						
Environmental Impact	Harvest will occur under frozen conditions to minimize impact.						
Wildlife	All dead and den trees and snags will be reserved unless they pose a safety hazard. Project timing is beneficial to wildlife The reserved species will serve as a mast production for wildlife.						
Common Animals	Harvest design favors WTD, Grouse, Woodcock and other species which use early successional forest part of the year. The bur oak is being reserved as mast production for wildlife.						
Visual Sensitivity	There are no visual concerns for this harvest area						
Cultural Resources	Database was checked and no resources found.						

STAND HARVEST PRESCRIPTIONS

Block:	2						
Stand Details							
Section	Township	Range	Timber Type	Acres	Stand Age	NPC	Harv Meth Desc
23	149	32	12	5.6	54	MHn35	Clear Cut w/Reserves
*NPC	MHn35 - Northern Mesic Hardwood Forest						
Basal Area Information							
Species Code	Species Name		BA	Res BA			
52	Aspen, Trembling		105	5			
Total BA: 105		Res BA: 5		% BA: 4.76			
Current Site Conditions	Current CTYPE is Aspen, with SI 65, and overall BA of 105 sq.ft./ac.						
Timber Objectives	Clear Cut with Reserves – Even-aged regeneration with some reserves for stand structure, habitat or natural seeding of some species.						
Regeneration	Aspen regeneration will be primary, with some seeding from reserve species and some stump sprouting to add diversity						
Riparian	RMZ and Filter Strip mostly excluded from harvest boundary, or protected by sale design.						
Soil Types	sandy loam						
Environmental Impact	Harvest will occur under frozen conditions to minimize impact.						
Wildlife	All dead and den trees and snags will be reserved unless they pose a safety hazard. The reserved species will serve as a mast production for wildlife.						
Common Animals	Harvest design favors WTD, Grouse, Woodcock and other species which use early successional forest part of the year. The bur oak is being reserved as mast production for wildlife.						
Visual Sensitivity	There are no visual concerns for this harvest area						
Natural Heritage	Database was checked and no resources found.						
Cultural Resources	Database was checked and no resources found.						
Block:	3						
Stand Details							
Section	Township	Range	Timber Type	Acres	Stand Age	NPC	Harv Meth Desc
23	149	32	71	1.8	123	FPn82	Clear Cut
*NPC	FPn82 - Northern Rich Tamarack Swamp						
Basal Area Information							
Species Code	Species Name		BA	Res BA			
58	Black Spruce		50	1			
Total BA: 50		Res BA: 1		% BA: 2			
Current Site Conditions	Current CTYPE is Black spruce, with SI 45, and overall BA of 50 sq.ft./ac.						
Insect/Disease	Dwarf Mistletoe - harvest all Black Spruce over breast height to reduce mistletoe in next stand.						

STAND HARVEST PRESCRIPTIONS

Timber Objectives	Clear Cut – with Even-aged regeneration
Regeneration	Aerial seeding of Tamarack &/or Black Spruce or count on natural regen since it is only 2 acres.
Wetlands	Wetland Harvest - the entire harvest block is a forested wetland, minimize scarification throughout, frozen and/or snow cover may be necessary
Environmental Impact	Harvest will occur under frozen conditions to minimize impact.
Visual Sensitivity	There are no visual concerns for this harvest area
Natural Heritage	Database was checked and no resources found.
Cultural Resources	Database was checked and no resources found.

STAND HARVEST PRESCRIPTIONS

Harvest Methods

Clear Cut

Harvest all merchantable trees (Clear Cut)

Clear Cut w/Reserves

retain marked or designated trees or clumps (Clear Cut)