

# Beltrami County NRM Timber Appraisal

# 225013

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<b>Appraised By:</b> Nick Ronning  <b>Appraisal Date:</b> 01/31/2025	<b>Sale Type:</b> REGULAR AUCTION SALE  <b>Auction Date:</b> 04/03/2025  <b>Access:</b> Public Access	<b>Appraisal Number:</b> Hagali HW <b>Permit Number:</b> 225013 <b>Expiration Date:</b> 04/03/2027
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**Legal Description**

<u>RE Code</u>	<u>Sec.</u>	<u>Twsp.</u>	<u>Rge.</u>	<u>School</u>	<u>City/Twp</u>	<u>Subd</u>
	29	149	32	32	Hagali	SE 1/4 NW 1/4, NE 1/4 SW 1/4, NW 1/4 SE 1/4

<u>Bid</u>	<u>Species</u>	<u>Volume</u>	<u>Units</u>	<u>Unit Price</u>	<u>Value</u>	<u>Comments</u>	<u>Bolt %</u>
Bid	Aspen pulp	100	Cords	\$25.00	\$2,500.00	Includes incidental BG	
Bid	Basswood Pulp & Bolts	30	Cords	\$10.00	\$300.00	Target clumps and > 12" DBH	
Bid	Maple pulp	5	Cords	\$10.00	\$50.00	Target Poor Quality and > 12" DBH	
Bid	Birch Pulp & Bolts	15	Cords	\$10.00	\$150.00	Cut 7" DBH and up	
Bid	Ash pulp	20	Cords	\$10.00	\$200.00	Cut as much as possible	
Bid	Balsam pulp	20	Cords	\$8.00	\$160.00	Includes White Spruce	
Bid	Oak pulp	10	Cords	\$10.00	\$100.00	Only dying tops and "operability" trees	
					\$3,460.00	<b>Subtotal</b>	
<b>Total Cords: 200 Total MBF: 0</b>					\$3,460.00	<b>Total</b>	
					\$519.00	<b>15% Down Payment</b>	

Bid Symbols: Bid = Bid Species; Non-Bid = Non-Bid Species; Area Est. = Sold Area Estimate; AE Non-Bid = Sold Area Estimate & Non-Bid Species  
 All species woodsrun unless listed otherwise.

**Species Scaled:** Ash pulp, Aspen pulp, Balsam pulp, Basswood Pulp & Bolts, Birch Pulp & Bolts, Maple pulp, Oak pulp

**Species SAE:**

<b>Operability:</b> Ash Swales will need to be dry or frozen: July 15 - Break Up	<b>Soil Type:</b> fine sandy loam, Sandy Loam, Loam
<b>Topography:</b> flat to slightly rolling	
<b>Acres:</b> 30	

**DRAIN**

<b>Type:</b> REGULAR AUCTION SALE	<b>Acres Cut:</b> 30.00
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Total: 30.00

**Harvest Specifications**

Access
<ul style="list-style-type: none"> <li>• Latitude/Longitude – Primary access location is Lat. 47.691N, by Long. 94.769W.</li> <li>• Firm or Frozen – Operations may be conducted between July 15 and Breakup when the site is frozen or when dry and firm to prevent site impacts. Ash Swale may require frost or equipment mats.</li> </ul>

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## Cutting and Skidding

- Logging Damage - Logging damage is injury to 30% or more of the crown; or bark damage exposing cambium of 50 sq.in. or more; or damage causing lean of more than 5 degrees from original. Damage to reserve trees, as identified on the Appraisal form, may be subject to a \$25/tree penalty
- Progressive Skidding Pattern – On summer Aspen harvest, use a progressive skidding pattern across blocks to avoid damage to aspen regeneration which happens when re-skidding through an area.
- Reserve tree cutting penalty - Cutting any marked or designated leave tree without pre-approval by the Forester may be subject to a \$50.00/tree penalty. On area estimate sales, reserve trees approved for cutting by the Forester must be measured or field scaled for billing at contract rates.
- Stay within Boundaries - Keep all harvest activities within the marked boundary. Failure may be subject to a \$100 penalty per incident. Private land west of timber sale.
- Stumps – Average stump heights below 12" and as low as possible.
- Tree length or Forward – Trees must be limbed and topped before skidding to prevent damage to residual stand, or forwarded if a CTL was used.

## Harvest and Reserves

- Boundary Blue Paint and Natural. Wetlands serve as natural boundaries.
- Cut Trees: All Aspen, Balm, Ash. Select Thin Hardwoods to improve health and form. See appraisal for DBH guidance.
- Leave Trees: Approximately 2/3 hardwood Basal Area, Leave all oak unless dying top, leave understory conifers.
- Den Trees – Reserve trees with obvious den and cavity usage, even if not marked to leave.

## Landings, Access Roads, and Skid Trails

- General Road/trail BMP - A combination of road drainage BMPs may be applicable to provide erosion protection.
- Landings Approved – Landing locations must be approved in advance by the Forester. Sale plan includes 2 landings
- Skid Trails - Special attention shall be given to trails approaching draw bottoms, drainage ways, streams, lakes and wetlands to provide surface drainage and erosion protection.
- 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. County will pay for up to 75 yards of gravel or approved material.

## Site, Soil, and Water Protection

- Intermittent streams – small intermittent streams less than 3' wide are in the project area. Crossings may be frozen or dry and firm. Slash, mats or corduroy must be approved by Forester. Use must not damage bed, banks or flow cross sections.
- RMZ General - Wetland and lowland brush areas are either excluded from the harvest block or protected by ERZ within block. Be sure to minimize scarification in filter strip per BMP guidelines.
- 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.
- Soil Protection - Soils are subject to rutting if operated on when wet, stop activity if conditions may lead to rutting, compaction or displacement of soils. Keep BMP applications current to prevent erosion.

## Slash Disposal

- Lop and scatter slash to within 2' of ground. Scattered slash piles (20'x20'x10') for wildlife are encouraged..
- Slash jumbles - loose jumbles of slash over and around hardwood (especially Birch) stumps reduces deer damage to regeneration.

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**Tree Size, Marketing, and Special Conditions**

- 4 inch TDIB – Utilize all material from butt to a 4” top diameter inside bark.
- No excess culling – Cutting long Butts or oversize tops to produce higher quality product must be done to retain marketable lengths of lower value pulp or firewood. Culling which leaves excessive amounts of wood in unmarketable lengths may be subject to a \$10.00 per piece penalty, unless the material is loaded and hauled off site based upon an estimated cord volume.
- 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.

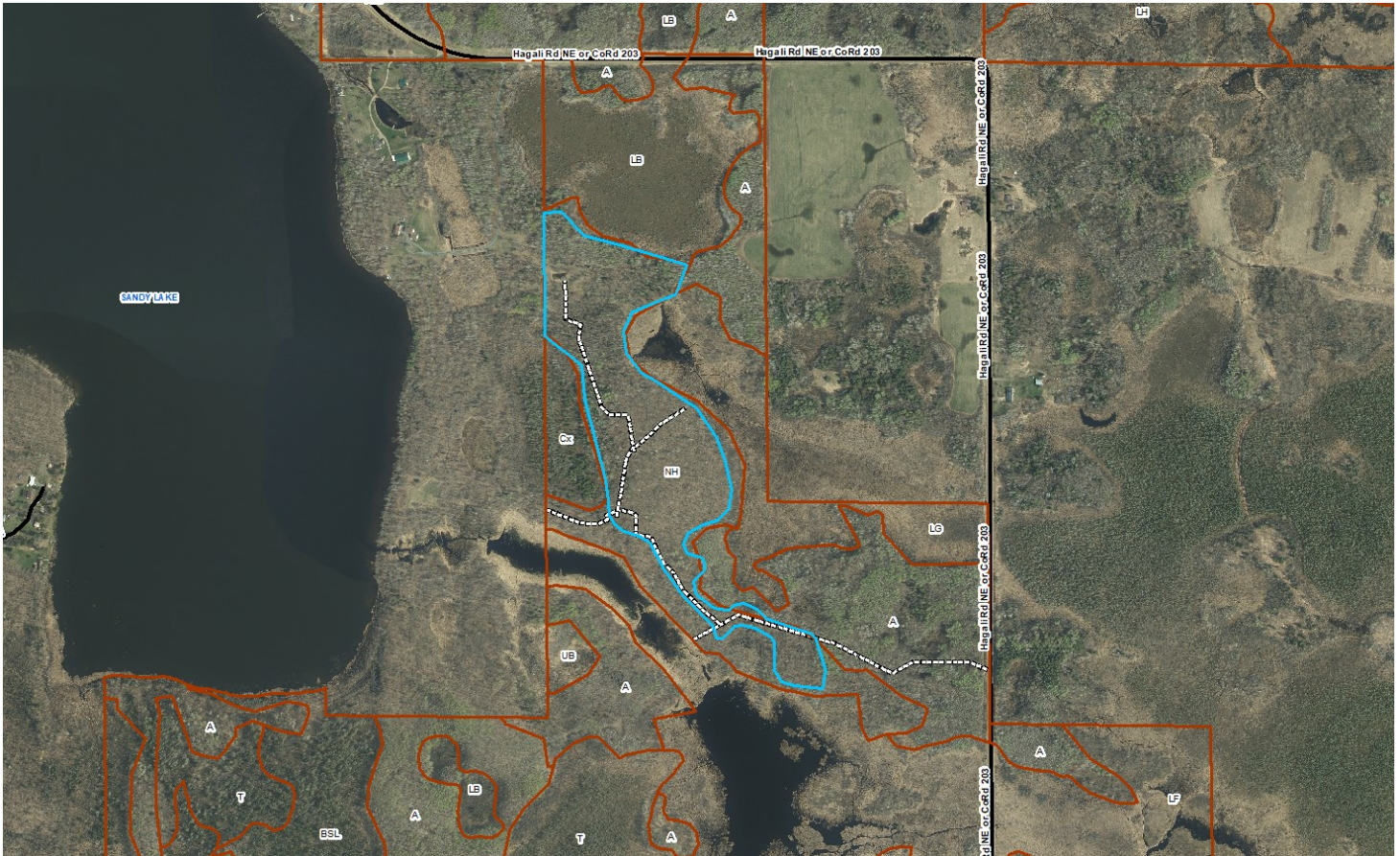
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### Site Map:



Appraisal examined and approved by \_\_\_\_\_

Forester

\_\_\_\_\_ Date

Appraisal examined and approved by \_\_\_\_\_

Land Department

\_\_\_\_\_ Date

## STAND HARVEST PRESCRIPTIONS

<b>Timber Sale Name:</b>	Hagali HW						
<b>Description:</b>							
<b>RE Code</b>	<b>Sec.</b>	<b>Twp.</b>	<b>Rge.</b>	<b>School</b>	<b>City/Twp</b>	<b>Subd</b>	
	29	149	32	32	Hagali	SE 1/4 NW 1/4, NE 1/4 SW 1/4, NW 1/4 SE 1/4	
<b>Block:</b>	1						
<b>Stand Details</b>							
<b>Section</b>	<b>Township</b>	<b>Range</b>	<b>Timber Type</b>	<b>Acres</b>	<b>Stand Age</b>	<b>NPC</b>	<b>Harv Meth Desc</b>
29	149	32	20	30	81	MHn44	Intermediate Thin
<b>*NPC</b>	MHn44 - Northern Wet-Mesic Boreal Hardwood-Conifer Forest						
No Basal Data							
<b>Current Site Conditions</b>	Current CTYPE is Northern Hardwoods, with SI 65, and overall BA of 90 sq.ft./ac. Stand is aged 81 years with a mix of mature and mid aged trees.						
<b>Insect/Disease</b>	EAB - harvest to reduce potential of EAB infestation in Ash						
<b>Timber Objectives</b>	The goal is to harvest mature hardwoods and aspen while retaining young and middle aged hardwood species with good form. Retain healthy oaks for seed source. Future harvests will consist of periodic thinning timed with harvest of nearby aspen stands that are nearing rotation age in 5-15 years. Hardwood Thinning – remove poorest quality trees to favor growth release of the desired crop trees during mid-rotation, with some mature crop tree removals.						
<b>Regeneration</b>	Advanced regeneration is established, released by this cut. All cut species should regenerate naturally. Aspen root suckering will regenerate parts of the stand. NH regeneration from seed and stump sprouting.						
<b>Riparian</b>	Filter Strips from adjacent wetlands must be protected from scarification - 75 feet from wetland edge.						
<b>Wetlands</b>	type 6 - shrub swamp type 7 - wooded swamp (hardwood & conifer) type 8 - bog (only scrub timber) Wetland and lowland brush areas are excluded from the harvest block. Be sure to minimize scarification in filter strip per BMP guidelines.						
<b>Soil Types</b>	Wykeham Fine Sandy Loam Beltrami Fine Sandy Loam Nebish Sandy Loam Shooker Loam						
<b>Wildlife</b>	All dead and den trees and snags will be reserved unless they pose a safety hazard. Project has specific design to favor Deer, grouse, other game species. Project spacing of habitat elements is beneficial to wildlife. Project timing is beneficial to wildlife The balsam fir and other understory conifer are being reserved for cover. The reserved species will serve as a mast production for wildlife.						
<b>Visual Sensitivity</b>	There are no visual concerns for this harvest area						
<b>Natural Heritage</b>	Database was checked and no resources found.						
<b>Cultural Resources</b>	Database was checked and no resources found.						

# STAND HARVEST PRESCRIPTIONS

## Harvest Methods

### Intermediate Thin

Thin as designated (Thinning)