## **Beltrami County NRM Timber Appraisal**

Page: 1 of 3

Appraised By: Marshall Graham **Appraisal Date:** 

Sale Type:

SEALED BID-REGULAR Auction Date: 04/02/2024

Expiration Date: 04/02/2026

Appraisal Number: Mixed Six Pack Permit Number: 224005

01/31/2024

Access:

**Private Access** 

**Legal Description** 

| RE Code               | Sec.          | Twp.         | Rge.              | <u>School</u> | 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 Species       | <b>Volume</b> | <u>Units</u> | <b>Unit Price</b> | <u>V</u> a    | <u>alue</u> | Comments                            | Bolt % | <u>Bid</u> |
| Ash pulp              | 100           | Cords        | \$10.00           | \$1,          | ,000.00     |                                     |        | ٨          |
| Aspen pulp            | 250           | Cords        | \$25.00           | \$6,          | 250.00      | Includes 5 cords of balm of gilead. |        | ٨          |
| Balsam pulp           | 40            | Cords        | \$10.00           | \$            | 400.00      |                                     |        | ٨          |
| Basswood Pulp & Bolts | 15            | Cords        | \$20.00           | \$            | 300.00      |                                     |        | #          |
| Birch pulp            | 50            | Cords        | \$10.00           | \$            | 500.00      | Includes 10 cords of maple.         |        | ٨          |
| Black Spruce          | 15            | Cords        | \$8.00            | \$            | 120.00      | Includes 1 cord of tamarack.        |        | *          |

\$8,570.00

Subtotal

Total Cords: 470 Total MBF: 0

\$8,570.00 **Total** 

\$1,285.50

15% Down Payment

Bid Symbols: ^ = Bid Species; # = Non-Bid Species; + = Sold Area Estimate; \* = 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

Species SAE:

**Black Spruce** 

Operability:

Frozen ground only

Soil Type:

Sandy loam and muck

Topography:

flat to slightly rolling

Acres:

19.4

**DRAIN** 

Type:

**SEALED BID-REGULAR** 

**Acres Cut:** 

19.40

Total: 19.40

### **Harvest Specifications**

#### Access

- Winter Only All operations limited to winter, frozen ground or sufficient snow cover to protect soil surface.
- Latitude/Longitude Primary access location is Lat. 47.7125N, by Long. 94.7029W.

### **Cutting and Skidding**

Stumps – Average stump heights below 12" and as low as possible.

#### **Harvest and Reserves**

- Boundary Blue Dot/Red Dot Blue dot boundary interior, red dots near property lines
- Den Trees Reserve trees with obvious den and cavity usage, even if not marked to leave.
- · Leave Trees: All oak, elm and blue or red painted trees.

## Beltrami County NRM Timber Appraisal

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SEALED BID-REGULAR

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### Landings, Access Roads, and Skid Trails

**Private Access** 

- · 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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Marshall Graham

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SEALED BID-REGULAR

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Access:

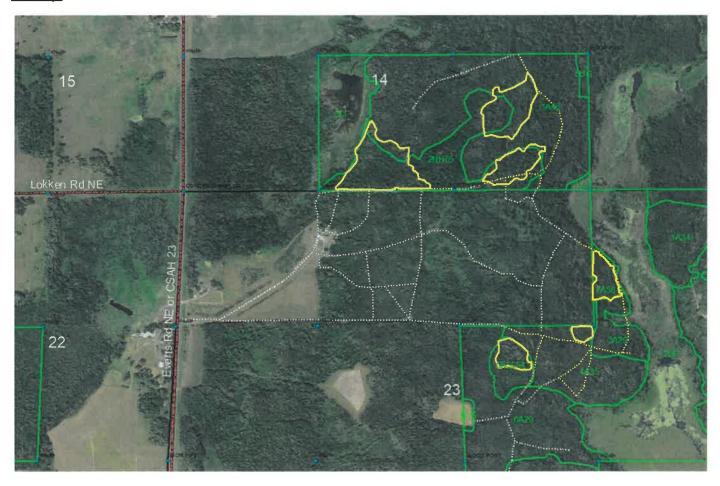
Private Access

Appraisal Number: Mixed Six Pack

Permit Number:

Expiration Date: 04/02/2026

### Site Map:



Appraisal examined and approved by

Appraisal examined and approved by

Marshall Ligham Forester

and Department

2-13-24

Date

Date

| Timber Sale Name:          | Mixed S  | ix Pack  |              |             |                  |               |                   | W-10-2        |
|----------------------------|--|--|--------------|-------------|------------------|---------------|-------------------|---------------|
| Description:               |  |  |              | 16 20 41    |                  |               |                   |               |
| 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 Townsh             | ip Rar   | nge T  | imber Type   | Acres       | Stand Age        | NPC           | Harv Me           | th Desc       |
| 14 149                     | 3  | 2  | 20           | 12          | 52               | MHn44         | Clear Cu          | ıt w/Reserves |
| *NPC                       | MHn44  | - Northe   | rn Wet-Mesi  | c Boreal H  | lardwood-Con     | ifer Forest   |                   |               |
| Basal Area Informat        | ion  |  |              |             |                  |               |                   |               |
| Species Code               |  |  | Species N    | ame         |                  | ВА            |                   | Res BA        |
| 50                         |  |  | Ash, Bla     | ck          |                  | 86            |                   | 5             |
| T-4-1 DA - 96              |  |  | Res BA:      | E           |                  | 0/ D          | A: 5.81           |               |
| Total BA: 86               |  |  | Res BA:      | <del></del> |                  | 70 D/         | H: 0.01           |               |
| Current Site<br>Conditions | Current  | CTYPE  | is Northern  | Hardwoo     | d, with SI 55, a | and overall E | 3A of 86 sq.ft./a | 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, habita 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<br>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 a  | are no vi  | sual concerr | ns for this | harvest area     |               |                   |               |
| Cultural Resources         | Databa   | se was   | checked and  | l no resou  | rces found.      |               |                   |               |

<sup>\*</sup> Cited from: MNDNR (2003). Field Guide to the Native Plant Communities of Minnesota: the Laurentian Mixed Forest Province. Ecological Land Classification asdfasdf

|                            | T <sub>a</sub>   | 3          | TAND HAR                               | MESI         | PRESCR         | IP HUI      | <b>43</b>                           |
|----------------------------|--|------------|--|--------------|----------------|-------------|-------------------------------------|
| Block:                     | 2  |            |  |              |                |             |                                     |
| Stand Details              |  |            |  |              |                |             |                                     |
| Section Townsh             | ip F   | Range      | Timber Type                            | Acres        | Stand Age      | NPC         | Harv Meth Desc                      |
| 23 149                     |  | 32         | 12                                     | 5.6          | 54             | MHn35       | Clear Cut w/Reserves                |
| *NPC                       | MHn:   | 35 - Nort  | thern Mesic Hard                       | dwood Fo     | rest           |             |                                     |
| Basal Area Informat        | ion  |            |  |              |                |             |                                     |
| Species Code               |  |            | Species Na                             | me           |                | В           | A Res BA                            |
| 52                         |  |            | Aspen, Tremb                           | oling        |                | 10          | 5 5                                 |
| Total BA: 10               | 5  |            | Res BA: 5                              |              |                | %           | BA: 4.76                            |
| Current Site<br>Conditions | Curr   | ent CTY    | PE is Aspen, wit                       | h SI 65, a   | ind overall BA | of 105 s    | q.ft./ac.                           |
| Timber Objectives          |  |            | th Reserves – Eveding of some sp       |              | regeneration   | with some   | e reserves for stand structure, hab |
| Regeneration               | sprou  | iting to a | dd diversity                           |              |                |             | reserve species and some stump      |
| Riparian                   | RMZ  | and Filt   | ter Strip mostly e                     | xcluded f    | rom harvest b  | oundary,    | or protected by sale design.        |
| Soil Types                 | sand   | ly loam    |  |              |                |             |                                     |
| Environmental<br>Impact    | Harv   | est will o | occur under froze                      | en condition | ons to minimi  | ze impact   |                                     |
| Wildlife                   |  |            | den trees and si<br>cies will serve as |              |                |             | y pose a safety hazard. The         |
| 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         | Ther   | e are no   | visual concerns                        | for this h   | arvest area    |             |                                     |
| Natural Heritage           | Data   | base wa    | as checked and r                       | no resourc   | ces found.     |             |                                     |
| Cultural Resources         | Data   | base wa    | as checked and r                       | no resourc   | ces found.     |             |                                     |
| Block:                     | 3  |            |  |              |                |             |                                     |
| Stand Details              |  |            |  |              |                |             |                                     |
| Section Townsh             | ip F   | Range      | Timber Type                            | Acres        | Stand Age      | NPC         | Harv Meth Desc                      |
| 23 149                     |  | 32         | 71                                     | 1.8          | 123            | FPn82       | Clear Cut                           |
| *NPC                       | FPn8   | 2 - North  | nern Rich Tamar                        | ack Swar     | np             |             |                                     |
| Basal Area Informat        | ion  |            |  |              |                |             |                                     |
| Species Code               |  | A          | Species Nar                            | me           |                | -B          | A Res BA                            |
| 58                         |  |            | Black Sprud                            | ce           |                | 5           | 0 1                                 |
| Total BA: 50               |  |            | Res BA: 1                              |              |                | %           | BA: 2                               |
| Current Site<br>Conditions | Curr   | ent CTY    | PE is Black spru                       | ce, with S   | SI 45, and ove | erall BA of | 50 sq.ft./ac.                       |
| Insect/Disease             | Dwa  | rf Mistlet | toe - harvest all E                    | Black Spr    | uce over brea  | st height   | to reduce mistletoe in next stand.  |

<sup>\*</sup> Cited from: MNDNR (2003). Field Guide to the Native Plant Communities of Minnesota: the Laurentian Mixed Forest Province. Ecological Land Classification asdfasdf

| 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<br>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.   |

### **Harvest Methods**

**Clear Cut** 

Harvest all merchantable trees (Clear Cut)

Clear Cut w/Reserves

retain marked or designated trees or clumps (Clear Cut)