

Beltrami County NRM Timber Appraisal

225009

Page: 1 of 3

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| Appraised By: Nick Ronning Appraisal Date: 09/16/2024 | Sale Type: REGULAR AUCTION SALE Auction Date: 04/03/2025 Access: Public Access | Appraisal Number: Ski Hill Aspen Permit Number: 225009 Expiration Date: 04/10/2027 |
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Legal Description

| <u>RE Code</u> | <u>Sec.</u> | <u>Twp.</u> | <u>Rge.</u> | <u>School</u> | <u>City/Twp</u> | <u>Subd</u> |
|----------------|-------------|-------------|-------------|---------------|-----------------|-------------|
| 47.00158.00 | 10 | 148 | 33 | 31 | Turtle Lake | SE |
| 47.00156.00 | 10 | 148 | 33 | 31 | Turtle Lake | SW |

| <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 | 550 | Cords | \$25.00 | \$13,750.00 | | |
| Bid | Balsam pulp | 15 | Cords | \$10.00 | \$150.00 | | |
| Bid | Mixed Hardwoods | 85 | Cords | \$10.00 | \$850.00 | Includes: maple = 40, birch = 15, red oak = 25, basswood = 3 and ash = 2 cords. | |
| Bid | Red Pine pulp | 30 | Cords | \$10.00 | \$300.00 | | |
| Bid | Red Pine bolts | 50 | Cords | \$40.00 | \$2,000.00 | | 100 |
| | | | | | \$17,050.00 | Subtotal | |
| Total Cords: 730 Total MBF: 0 | | | | | \$17,050.00 | Total | |
| | | | | | \$2,557.50 | 15% Down Payment | |

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: Aspen pulp, Balsam pulp, Mixed Hardwoods, Red Pine bolts, Red Pine pulp

Species SAE:

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| Operability: Firm or frozen | Soil Type: fine sandy loam |
| Topography: rolling to side-hill/steep | |
| Acres: 32 | |

DRAIN

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|-----------------------------------|-------------------------|
| Type: REGULAR AUCTION SALE | Acres Cut: 32.00 |
|-----------------------------------|-------------------------|

Total: 32.00

Harvest Specifications

| Access |
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| <ul style="list-style-type: none"> Firm or Frozen – Operations may be conducted whenever the site is frozen or when dry and firm to prevent site impacts. Latitude/Longitude – Primary access location is Lat. 47.6466N, by Long. 94.8613W. |
| Cutting and Skidding |
| <ul style="list-style-type: none"> Marked to Cut – Red pine trees in parts of the sale are marked to cut (MTC) with red paint. Cut all merchantable aspen, birch, maple, red oak, ash, basswood and balsam fir. Refer to harvest block and silvicultural prescription details elsewhere in the contract. Stay within Boundaries - Unless approved in advance by the Forester, all harvest activities shall be confined to within the marked boundary. Access roads, skid trails and landing areas proposed for use outside the harvest boundary must be approved prior to use. Failure to comply with these requirements may be subject to a \$100 penalty per incident. Stumps – Average stump heights below 12" and as low as possible. |

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Timber Appraisal**

225009

Page: 2 of 3

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|--------------------------------------|---|---|
| Appraised By: Nick Ronning | Sale Type: REGULAR AUCTION SALE | Appraisal Number: Ski Hill Aspen |
| Appraisal Date: 09/16/2024 | Auction Date: 04/03/2025 | Permit Number: 225009 |
| | Access: Public Access | Expiration Date: 04/10/2027 |

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| Harvest and Reserves |
| <ul style="list-style-type: none">• Boundary Blue Dot - leave all boundary trees (unless also marked "CUT")• Den Trees – Reserve trees with obvious den and cavity usage, even if not marked to leave.• Leave Trees: Burr oak and 2/3 of red pine stand. |

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| Landings, Access Roads, and Skid Trails |
| <ul style="list-style-type: none">• Landings Approved – Landing locations must be approved in advance by the Forester. Sale plan includes 3 or 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. Any temporary trail or spur will be closed. |

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| Site, Soil, and Water Protection |
| <ul style="list-style-type: none">• 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. |

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| Slash Disposal |
| <ul style="list-style-type: none">• Slash Scattered - lop & scatter slash in aspen stands and spread limbs from red pine back on trails in the red pine. |

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| Tree Size, Marketing, and Special Conditions |
| <ul style="list-style-type: none">• 4 inch TDIB – Utilize all material from butt to a 4” top diameter inside bark.• Pine thinning guides - to minimize Ips Bark Beetle Damage in residual or nearby pine. A) December 1–May 31: All cut pine material > 3” and pine logs must be removed or destroyed before June 1 ; B) June 1–August 31: All cut pine material > 3” and pine logs must be or destroyed within 3 weeks of cutting; C) September 1–November 30: may leave slash on site |

STAND HARVEST PRESCRIPTIONS

| | | | | | | | |
|--------------------------------|--|------------------|--------------------|-------------------|------------------|-------------|-----------------------|
| Timber Sale Name: | Ski Hill Aspen | | | | | | |
| Description: | | | | | | | |
| RE Code | Sec. | Twp. | Rge. | School | City/Twp | Subd | |
| 47.00158.00 | 10 | 148 | 33 | 31 | Turtle Lake | SE | |
| 47.00156.00 | 10 | 148 | 33 | 31 | Turtle Lake | SW | |
| Block: | 1 | | | | | | |
| Stand Details | | | | | | | |
| Section | Township | Range | Timber Type | Acres | Stand Age | NPC | Harv Meth Desc |
| 10 | 148 | 33 | 12 | 21 | 47 | FDn43 | Clear Cut w/Reserves |
| *NPC | FDn43 - Northern Mesic Mixed 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 75, 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 | Filter Strips from adjacent wetlands must be protected from scarification | | | | | | |
| Wetlands | 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. | | | | | | |
| Soil Types | loamy fine sand | | | | | | |
| 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 | Low - visual sensitivity is low, minimize slash close to roadway | | | | | | |
| Natural Heritage | Database was checked and no resources found. | | | | | | |
| Cultural Resources | Database was checked and no resources found. | | | | | | |

STAND HARVEST PRESCRIPTIONS

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|--------------------------------|--|--------------|--------------------|-------------------|------------------|------------|-----------------------|
| Block: | 2 | | | | | | |
| Stand Details | | | | | | | |
| Section | Township | Range | Timber Type | Acres | Stand Age | NPC | Harv Meth Desc |
| 10 | 148 | 33 | 52 | 11 | 44 | FDn33 | Marked to Cut |
| *NPC | FDn33 - Northern Dry-Mesic Mixed Woodland | | | | | | |
| Basal Area Information | | | | | | | |
| Species Code | Species Name | | | BA | Res BA | | |
| 71 | Pine, Norway | | | 124 | 78 | | |
| Total BA: 124 | Res BA: 78 | | | % BA: 62.9 | | | |
| Current Site Conditions | Current CTYPE is Red pine, with SI 64, and overall BA of 124 sq.ft./ac. | | | | | | |
| Insect/Disease | Ips - Potential for Ips Beetle in logs & slash, use hauling guides | | | | | | |
| Timber Objectives | Pine Thin Marked to Cut – remove red pine trees marked to cut with red paint. Cut all merchantable aspen, balsam fir, birch, maple, red oak, basswood, and ash. | | | | | | |
| Regeneration | Release of the thinned trees is the goal, any understory regeneration is a bonus. | | | | | | |
| Wetlands | 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. | | | | | | |
| Soil Types | loamy fine sand | | | | | | |
| 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 | Low - visual sensitivity is low, minimize slash close to roadway | | | | | | |
| 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 w/Reserves

retain marked or designated trees or clumps (Clear Cut)

Marked to Cut

Trees to be harvested are marked to cut (Thinning)