



Compartment Review Record of Changes and Decisions  
Crystal Falls Forest Management Unit  
2022 Year-of-Entry  
Virtual Teams Meeting  
October 27, 2020

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The following documents the changes and decisions made at the compartment review to the Inventory database, reports, and compartment maps presented at open house, for the Crystal Falls Forest Management Unit compartment review. This document is the official record of changes and decisions. Proposals originally presented were approved unless noted below.

Attendees

Dan McNamee, FRD; Jacob Siler, FRD; Scott Sebero, FRD; Richard Goupell, FRD; Andy Church, FRD; Deb Goupell, FRD; Tom Seablom, FRD; Ed Rice, FRD; Monica Joseph, WLD; Ryan McGillviray, WLD; Kerry Fitzpatrick, WLD; John Hamel, FRD, Sarah Janda, FOD; Karen Sexton, WLD; Bob Tylka, FRD; Rob Katona, PRD

**Comments from Stakeholders**

The Open House was held as an open public comment period due to the COVID-19 Pandemic. No written comments were received.

Compartment 5

Changes made at compartment review:

- Stand 11 Add treatment with same prescription as stand 38

Compartment 7

Changes made at compartment review:

- Stand 4: Cut two stick spruce, balsam, tamarack and jack pine. Leave wet area with a buffer.
- Stand 33: Leave one birch per acre.
- Stand 35: Leave one birch per acre.
- Stand 40: Leave all white pine, oak and large diameter red pine. Leave one stick and smaller spruce and balsam. Scarification next steps has been dropped and herbicide pockets of aspen and maple added.
- Stand 43: Cut two stick aspen, spruce and balsam. Leave one aspen or birch per acre.
- Stand 54: Add black ash to no cut list. Leave one cherry per acre.
- Stand 55: Cut two stick aspen, spruce and balsam. Leave one aspen or birch per acre.
- Stand 56: Cut two stick aspen, spruce and balsam. Leave one aspen or birch per acre.
- Stand 62: Cut two stick spruce, balsam, tamarack and jack pine.
- Stand 63: Leave one birch per acre.

Compartment 16:

Changes made at compartment review:

- Stand 6: Leave a component of ironwood along hardwood and aspen edge on north edge of stand. Leave a conifer component within the stand. Leave white pine and oak.
- Stand 15: Leave white pine and oak, leave Spruce/fir where possible (this will be discussed with logger during pre-sale meeting).
- Stand 16,18, 29: Leave species wording the same as stand 15.
- Stand 21: Forester will determine if aspen on east side of cedar patch (center of stand) is worth harvesting.

A handwritten signature in blue ink, appearing to be 'JH', is located in the bottom right corner of the page.

### Compartment 34

Changes made at compartment review:

- Stand 4: Leave white pine, oak if present.
- Stand 7: Leave 1 stick and smaller clumps of conifer scattered throughout the stand as available within stand.
- Stand 14: Leave obvious Den and Cavity trees within the stand when marking the sale.
- Stand 17: Leave a representation of all spp. within the stand when marking the sale.
- Stand 19: No operations within the drainage on the east side of the stand, Leave clumps of live 1 stick and smaller Spruce/Fir where possible within the stand (discuss with logger during pre conf sale meeting), leave a component of white and yellow birch scattered throughout the stand.
- Stand 35: Leave small clump of 10-12 trees of 1 stick and less conifer where available scattered throughout the stand, leave some ironwood along stand boundary when setting up sale.
- Stand 36: Leave oak, avoid damage during harvest operations.
- Stand 38: Leave oak and avoid damage during harvest operations, leave White Pine (Deb will look at data and add as leave spp. if there is white pine within this stand).
- Stand 49: Leave obvious Wildlife Den and Cavity trees. Remove all aspen except those that have potential to be wildlife trees by marking with orange X when marking sale.
- Stand 52: Connect the center and south east cedar patches, leave a 2chain wide corridor along the east side that contains drainage on north side of Road. Leave 2 stick and less Spruce/Fir where available (Spruce budworm has eliminated most of the Spruce/Fir in this area).
- Stand 44: Leave 1 stick and smaller Spruce/Fir clumps of 10-12 trees scattered throughout the stand where available.
- Stand 55: Leave 1 stick and smaller Spruce/Fir clumps of 10-12 trees scattered throughout the stand where available.

### Compartment 52

Changes made at compartment review:

- No changes.

### Compartment 58

Changes made at compartment review:

- No changes.

### Compartment 63

Changes made at compartment review:

- No changes.

### Compartment 67

Changes made at compartment review:

- No changes.



## Compartment 72

Changes made at compartment review:

- Stand 11: Cut all trees 2 inches and greater. Do not cut red pine, white pine, hemlock and oak. Buffer vernal and stream 100'. Comment: Put retention in buffer. Look at using no whole tree harvest spec.
- Stand 17: Cut all trees 2 inches and greater at DBH. Leave sub-merchantable spruce and fir. Do not cut white pine, cedar, hemlock and oak. Comment: No retention. Look at using no whole tree harvest spec.
- Stand 26: Cut all trees 2 inches and greater. Do not cut cedar, oak, hemlock, red pine and white pine. Comment: Some poor-quality hardwoods may be included in this cut.
- Stand 35: Cut all trees 2 inches and greater. Do not cut white pine, cedar, hemlock and oak. Cut spruce/fir 2 sticks and up. Green tree between 5 and 12 log/pole red pine. Buffer stream to north 100 feet. Comment: Steep hill on south end of stand 35 can be excluded. Buffer stream to north 100 feet. Access north of stream would be difficult and would require pushing a road in along stand 34, just north of hemlock in stand 33. Acreage gained would be small from cutting north of stream, as steep hill running east and west is inoperable. A road will have to be pushed up through stand 37 and across power line.
- Stand 42: Cut all trees 2 inches and greater in hardwood patches. Mark accessible red pine areas adjacent/within hardwood patches to a basal area of 110. Do not cut cedar, hemlock and white pine. Only mark no cuts trees for access within stand if absolutely needed. Do not cut sub-merchantable spruce/fir. Winter cut only. Comment: May be optional unit as treatment will be small. Very small amount of pine will be thinned. Most of treatment area will be clear-cut mixed deciduous.
- Stand 49: Cut all trees 2 inch and greater. Do not cut pine, cedar and hemlock. Do not cut sub-merchantable spruce/fir. No retention as stand is under 10 acres. Buffer creek on south west edge 100 feet.
- Comment: Look at using no whole tree harvest spec.
- Stand 50: Thin red pine to 110 BA. Do not cut white pine, cedar, hemlock and oak. Do not cut sub-merchantable spruce and fir. Only mark no cut if absolutely needed for access within stand. Comment: Red line out any dense cedar or hemlock areas. Mark to protect cedar when present.
- Stand 55: Thin red pine to 120 BA. Do not cut cedar, white pine and hemlock. Leave 2 un-thinned pockets 1 chain in diameter. Create 2 regeneration gaps 1 chain in diameter. Only mark no cut trees if absolutely needed for access within the stand.
- Stand 58: Thin to 70 BA. Do not cut cedar, hemlock, and pine. A few pine tree may be marked in the far south section of the stand for operation only. Comment: Stay out of ERA area. BA may be above 70 where pine is thicker on the south side of the stand. Should be able to skid to the north where there is a break in the cliff/steep hill. If not, may be longer skid to the west and possibly the northeast. Terrain eliminates access from the south.
- Dropping treatments 12072050-Cutx, Strip/Patch/Gap, 36.4 acres, 12072055-Cut, Seed tree, 30.7acres, 12072056 Cut, Seed tree, 8.1 acres.

## Compartment 101

Changes made at compartment review:

- No Changes.

## Compartment 109

Changes made at compartment review:

- No changes.

## Compartment 129

Changes made at compartment review:

- No changes.

### Compartment 123

Changes made at compartment review:

- Stand 22 Add comments regarding snowmobile access.

### Compartment 136

Changes made at compartment review:

- Add Site Conditions to all treatments within this compartment due to access issues.

### Compartment 148

Changes made at compartment review:

- Stand 6: Leave one aspen or yellow birch per acre.
- Stand 42: Leave one aspen or birch per acre.
- Stand 43: Leave ridge top on NE portion of stand, along Kelso Creek, to provide a travel corridor. Leave one aspen or birch per acre.

### Compartment 152

Changes made at compartment review:

- Stands 9, 17, and 41: Drop treatments
- Stand 26: redrawn to include what was north block of 41.
- Stand 8: Cut two stick spruce, balsam, tamarack and jack pine. Leave black spruce edge.
- Stand 10: Cut two stick spruce, balsam, tamarack, jack pine, aspen and mixed hardwood, except oak. Leave black spruce edge.
- Stand 12: Cut two stick spruce, balsam, tamarack and jack pine. Add black ash and white pine to no cut list. Leave legacy red pine. Leave rock knob. Leave one aspen or cherry per acre.
- Stand 21: Leave hemlock, cedar, spruce, balsam, white pine and large diameter red pine. Leave one aspen or cherry per acre. Leave rock outcrop.
- Stand 24: Cut two stick spruce, balsam, tamarack, jack pine, aspen and mixed hardwood, except oak.
- Stand 26: Cut two stick spruce, balsam, tamarack and jack pine. Add paper birch to no cut species. Leave trees flagged as wildlife trees. Leave one aspen, cherry or birch per acre.

### Compartment 163

Changes made at compartment review:

- Stand 24: In south and west portion of stand, cut all aspen, jack pine and mixed hardwood, except oak with one or more pulpwood stick. Red pine will be marked to 100 BA. All spruce and balsam will be left in these areas. In north and east portion of stand, all merchantable trees that have been blown over, as well as all aspen, jack pine, spruce, balsam and mixed hardwood, except oak, will be harvested. Only white pine and oak that have been blown over will be cut. Protect oak and conifer regeneration during harvest operations. 200 to 300 jack pine per acre will be planted in north and west portion of stand to help retain pine cover type. Some spot herbicide may be applied to control red maple and aspen regen.
- Stand 25: Cut all merchantable trees that have been blown over or damaged by wind event.

### Compartment 183

Changes made at compartment review:

- No changes.



Compartment 193

Changes made at compartment review:

- No changes.

Groveland Mines Complex ERA Plan

Changes made at compartment review:

- Approved as Presented.

As the Compartment Review Meeting Facilitator, I certify that the above changes were agreed upon.



John M. Hamel, Inventory and Planning Specialist

October 27, 2020