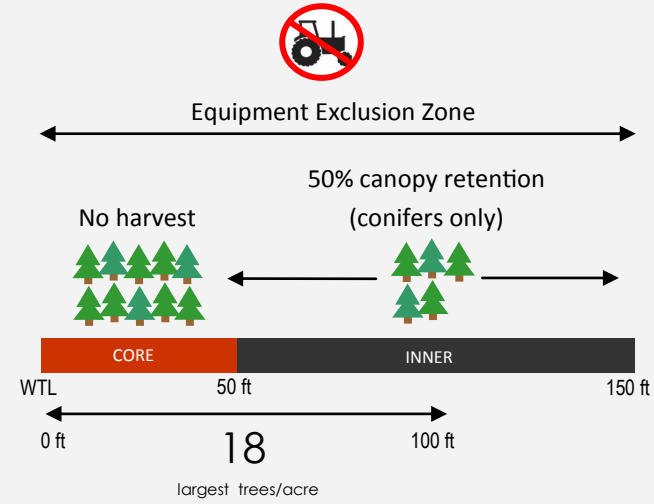
 = 10% canopy retention

HUMBOLDT REDWOOD COMPANY
ELK RIVER ROWD
SEPTEMBER 2015

PROPOSED WDR RIPARIAN REQUIREMENTS

*Requirements are in addition to HRC prescriptions detailed above.

CLASS I

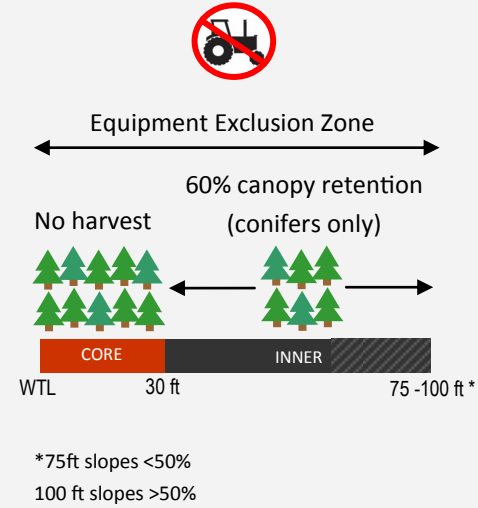


- Unstable slopes require Licensed Geologic Review
- No harvest on inner gorge slopes
- Only one entry into RMZ permitted every 20 years
- Retain all pre-existing down wood in RMZ
- In addition to 18 largest, retain trees with greatest likelihood for recruitment to stream
- Forestry-related mineral soil exposure within RMZ (>100 ft²) to be treated
- 150' No Harvest Zone for 8 miles of Lower NF Elk River

ADDITIONAL RIPARIAN PROTECTIONS FOR SOFT BEDROCK TERRAIN SUB-BASINS

- Slopes with gradients $\geq 50\%$ and within 300 ft of a Class I require Licensed Geologic Review
- Maintain ≥ 100 ft² of conifer basal area on unstable slopes
- Rock armor or slash pack haul road water bar outlets within 150 ft of downslope Class I
- Slash pack skid trails within 50 ft of watercourse
- Slash pack temporary roads at completion of operations with sound woody debris or (or equivalent). Walking or quad trails may be kept open on inside edge of road

CLASS II

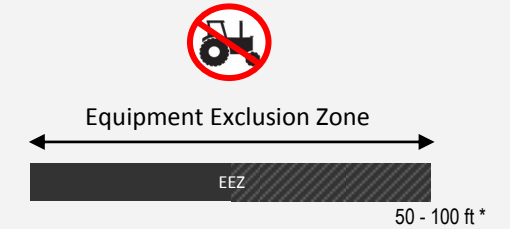


- Unstable slopes require Licensed Geologic Review
- 60% minimum canopy retention requirement is specific to conifer; well-distributed and multi-storied
- Only one entry into RMZ permitted every 20 years
- Retain all pre-existing down wood in RMZ
- Forestry-related mineral soil exposure within RMZ (>100 ft²) to be treated for erosion control (HCP 6.3.3.8)

ADDITIONAL RIPARIAN PROTECTIONS FOR SOFT BEDROCK TERRAIN SUB-BASINS

- Slopes with gradients $\geq 50\%$ and within 300 ft of a Class II require Licensed Geologic Review
- Maintain ≥ 100 ft² of conifer basal area on unstable slopes
- Rock armor or slash pack haul road water bar outlets within 150 ft of downslope Class II
- Slash pack skid trails within 50 ft of watercourse
- Slash pack temporary roads at completion of operations with sound woody debris or (or equivalent). Walking or quad trails may be kept open on inside edge of road

CLASS III



*50ft slopes <50%
100 ft slopes >50 %

- Unstable slopes require Licensed Geologic Review
- Retain channel trees
- No harvest within 10 ft of erosive channel banks
- Retain all pre-existing down wood in RMZ
- Forestry-related mineral soil exposure within RMZ (>100 ft²)
- Minimum 50% conifer canopy retention required for headwall swales

ADDITIONAL RIPARIAN PROTECTIONS FOR

- No harvest within 10 feet of a Class III
- Maintain ≥ 100 ft² of conifer basal area on unstable slopes.
- Retain 150 ft² basal area/acre (of any commercial species) on headwall swales that envelope Class III source areas
- Slash pack skid trails within 50 ft of watercourse
- Slash pack temporary roads at completion of operations with sound woody debris or (or equivalent). Walking or quad trails may be kept open on inside edge of road

