

## **Snow-Way Integrated Resource Contract Report**

### **I. Location**

The project area is 1,685 acres in size and is located in sections 26-29, 33-35, T62N, R1W, and sections 2, 3, T61N, R1W, Boise Meridian, Boundary County, Idaho. The timber stand atlas compartment numbers are 762 and 717, Bonners Ferry Ranger District, Idaho Panhandle National Forests. Harvest is planned on 626 acres. There are an additional 369 harvest acres in Optional Units G2 and G4. The project lies in the Snow and Myrtle Creek drainages. The sale area is located approximately 8 miles west of Bonners Ferry, accessed by Snow Creek Road 402.

### **II. Relationship to the Environmental Document and Other Uses**

This sale has been prepared under the direction of the Myrtle Creek Healthy Forests Restoration Act Project (HFRA) Final Environmental Impact Statement, and Record of Decision was approved by the Forest Supervisor on August 22, 2007. The purpose of the sale is to maintain the Myrtle Creek municipal watershed as a source of high quality drinking water for the City of Bonners Ferry and reduce hazardous fuels in the project area. In addition, trend vegetation toward conditions less susceptible to catastrophic fire, while maintaining and restoring habitat for fish and wildlife. Alternative 2 was chosen to best meet management objectives. The sale area also lies in the Wildland Urban Interface (WUI).

Units G7S, G11, and portions of units G10 and E3 lie in Forest Plan Management Area 2 (TGRIZ) – Manage identified grizzly bear habitat to support the IPNF’s share of a recovered grizzly bear population while providing for the production of commercially valuable wood products.

Units G1, G2, G3, G4, G5, G6, G7H, G8, E8, and portions of units G10 and E3 lie in Forest Plan Management Area 1 (TIMBR) – Provide for the long-term growth and production of commercially valuable wood products on those lands that are suitable for timber production.

- A. Private Land/Right-of-Way:** Private land lies adjacent to cutting units G1, G2, G3, and G4. The boundaries are clearly marked with signs. Fell trees away from these boundaries and whole tree yard within 150 ft from all private property boundaries and open roads. There is an existing cost share agreement on road 402. Liability insurance will be required. A new gate will be installed on road 402A at the Forest Service boundary.

- B. Threatened, Endangered, (T&E) and Sensitive Species:** This project may affect individuals or their habitat but is not likely to adversely affect any T & E or Sensitive species or contribute towards Federal listing. No rare plants have been found in the sale area, but if found shall be protected under the contract. This sale lies in a Lynx Analysis Unit, but it is unlikely to result in adverse impacts to lynx or their habitat. Much of this sale lies in the Pack River Grizzly Bear Occupancy Area. No spring helicopter logging from April 1 – June 14 will apply to unit G7H, and optional units G2 and G4, for grizzly bear management. All tractor harvesting shall occur in the winter, during the grizzly bear denning period (November 16 – March 31).
- C. Wetlands/Streamside Habitats:** All activities are designed to protect water quality and fisheries habitat. Standards and guidelines established by the Inland Native Fish Strategy (INFS) will be used: exclusion zones of no harvesting and no equipment within 300 feet for fish-bearing streams, 150 feet for perennial streams, and 50 feet for ephemeral draws. The exception will be in ephemeral draws called Streamside Management Zones (SMZ) in Units G2, G6, G7H, G7S, where limited timber harvest shall occur to reduce fuels as follows: whole tree yarding as much as possible, hand felling, remove only LP, and DF sawlogs < 12” dbh (no non-sawtimber), no ground-based equipment, no firelines, no ignitions during underburning. Wet areas or elk wallows have been omitted from cutting units and marked with an orange-painted boundary (units G1, G10). No temporary roads are planned to be constructed. The decommissioning of the existing open temporary road (old road 402C) shall include recontouring stream channel crossings, stabilizing fill slopes, seeding, fertilizing, and woody debris placement. It will be accomplished under a stewardship project. The remaining portion of road 402C has already been decommissioned and will not be used for this project. Road reconstruction activities in perennial streams shall only take place from July 15 to September 15, to minimize erosion.
- D. Special Uses, Mining Claims, Range Allotments:** There are no mining claims, special use permits, or range allotment in the sale area.
- E. Noxious Weeds:** In order to prevent the spread of noxious weeds into the sale area, contractor shall be required to clean off-road logging and construction equipment prior to entry on to the sale area. Contractor shall treat noxious weeds along road 402 by spraying 2 applications of herbicides, prehaul and posthaul.
- F. Cultural Resources:** There are no archaeological sites in the contract area requiring protection.
- G. Wildlife:** Large woody debris shall be retained in all units to meet wildlife objectives. Snags and replacement snags will be maintained by appropriate harvest prescriptions in all units, for wildlife purposes. Leave dead trees (snags) > 15" dbh standing. To maintain habitat diversity, hardwood trees shall not be harvest. If large diameter snags or hardwood trees are felled for safety reasons, they shall remain on the site, for large woody debris recruitment, and long-term site productivity. Veteran or relic Ponderosa Pine and Larch (20” dbh or more) will be protected during underburning by pulling back slash within a 12 ft radius. Patches of understory will be retained on dry sites in the SMZ’s (Units G2, G6, G7H, G7S) for Flammulated Owl habitat. When grapple piling slash, leave some piles unburned for small mammal habitat. No Goshawks have been found in the project area, however, if a nest is found it will be protected under the contract.

- H. Soils:** Existing skid trails and slash mats will be used during logging and during grapple piling when possible (Units G1, G3, G6, G8, G10, G11). Tractor logging shall only occur when one or more of the following conditions exist: 18 inches of settled snow, 4 inches of frozen ground, 24" snow layer, or an adequate slash mat. Any skid trails excavated shall be fully recontoured after use by the contractor. Mechanical felling shall only be allowed off skid trails if the machine travels on snow, frozen ground, or an adequate slash mat. Skyline yarding requires full suspension as much as possible across any Riparian Habitat Conservation Area (RHCA), designated as Streamside Management Zones (SMZ) on the map. Units G3 and G10 currently exceed soil quality standards. Therefore, skid trails no longer needed in the long term will be rehabilitated after use, including scarification, decompaction, and incorporating organic debris, seeding, and weed control. To retain nutrients as much as possible, trees shall be lopped and scattered, slash shall overwinter, and burning shall be light in nature (in spring). Exceptions include whole tree yarding in ephemeral draws, private property, and along open roads where fire control problems are anticipated.
- I. Roadless Area:** Portions of the sale area (Units E3, E8, and G8) lie in the Kootenai Peak Roadless Area. Roadless Area rules will apply and project activities should not change the character and values of recreational opportunities. Silvicultural prescriptions have been designed to meet Roadless Area requirements in these units.
- J. Recreation:** Hauling will be restricted on weekends and holidays for safety reasons, due to residential and recreational use of the haul route.
- K. Old Growth:** Portions of units G2, G7H, and G7S contain dry-site old growth stands. They will be treated as a combination of group selections with commercial thinning, to restore and maintain the long-lived seral species of the old growth character.

### **III. Timber Volumes**

This sale was cruised in the fall of 2005, the summer and fall of 2006, and finished in the spring of 2007 using sample tree and plot cruising methods. Units G3, G4, G5, G8, G10, G11 were sample tree cruised, and the remaining units were variable plot cruised with a 20 BAF. All units except for the helicopter units require non-sawtimber removal. This non-sawtimber was cruised with 1/20<sup>th</sup> acre fixed plots. Small trees are not designated for removal in the SMZ's in units G1, G6, and G7S and in helicopter units. Cutting unit acreages were determined using GPS.

This is a weight scale sale with a designed sale error of 20%. Refer to the Snow-Way cruise number 70803, run on 03 -14 - 2008. The INGY 2 point volume equations were used with a 5.6" top diameter for sawtimber and a 4.0" top diameter for non-sawtimber. The sale-as-a-whole error for primary products was 13.25 % at the 95% confidence level, based on net volume, and can be found in Table DS1. Strata errors < 50% were attained for all strata. Table UC 5 was used for all volumes. Table R101 was used for appraisal group statistics. Table UC11 was used to determine the number of trees. Non-sawtimber (topwood and small trees) are mandatory removal products where designated in units G1, G3, G5, G6, G7S, G8, G10, G11, E3, and E8. The sale conversion factor is .5424 mbf/ccf. The average weight conversion factor is 3.32 ton/ccf (6.11 ton/mbf). The following table summarizes sale acreage and estimated timber volumes by species, logging system, and unit:

## Volumes (CCF)

Mandatory Units	Acre	AF	C	DF	GF	H	L	LP	PP	S	Sawlog Total	Non-Sawlog	Sale Total	Sale Tons	Log System
G1	93		22	305	47		43	933	18	3	1,371	367	1,738	5,769	Tractor
G3	19		4	26	2		5	6	1	1	45	7	52	170	Tractor
G5	6		5	13	2		7	8	1	1	37	6	43	138	Tractor
G6	85			724	19		84	37			864	327	1,191	4,083	Tractor
G7H	125			1,166	50		281	359	41		1,897		1,897	6,330	Heli
G7S	110	22	75	1,209	25	12	176	130	26	69	1,744	579	2,323	7,627	Skyline
G8	8		5	133	22		18	7		5	190	12	202	663	Tractor
G10	32	1	45	134	9		31	23	6		249	118	367	1,178	Tractor
G11	10		5	16	2		6	8	2	1	40	7	47	150	Tractor
E3	117		56	87	35		166	427		20	791	558	1,349	4,423	Skyline / Swing
E8	21		10	16	6		30	77		4	143	100	243	794	Skyline
<b>Total</b>	<b>626</b>	<b>23</b>	<b>227</b>	<b>3,829</b>	<b>219</b>	<b>12</b>	<b>847</b>	<b>2,015</b>	<b>95</b>	<b>104</b>	<b>7,371</b>	<b>2,081</b>	<b>9,452</b>		
<b>MBF</b>		<b>11</b>	<b>99</b>	<b>1,854</b>	<b>113</b>	<b>4</b>	<b>433</b>	<b>989</b>	<b>50</b>	<b>51</b>	<b>3,604</b>	<b>1,523</b>	<b>5,127</b>		
<b>Tons</b>											<b>24,465</b>	<b>6,860</b>		<b>31,325</b>	
<b>Optional Units</b>															
G2	325		39	1706	25		235		58	24	2087		2,087	6,546	Heli
G4	44			108			7	3	13		131		131	418	Heli
<b>Total</b>	<b>369</b>		<b>39</b>	<b>1,814</b>	<b>25</b>		<b>242</b>	<b>3</b>	<b>71</b>	<b>24</b>	<b>2,218</b>		<b>2,218</b>	<b>6,964</b>	

### IV. Marking Plan

#### A. General:

All cutting unit boundaries have been marked on three sides of cutting unit boundary trees with streaks of orange paint extending from near ground level to a height of 6 feet or more, and orange stump marks. The middle streak faces the cutting unit. Where a cutting unit is adjacent to a road, the road is the boundary and no paint was used. Fell trees away from cutting unit boundaries. Streamside Management Zones are designated with pink painted boundaries in units G1 and G6, and with pink "SMZ" ribbons in units G2, G3, G4, G7S and G7H (approximately 50 ft slope distance from center of draw to the topographic break).

Units G2, G6, G7H, and G7S are Group Selections. Units E8, G3, G4, G5, G8, G10, and G11 are Commercial Thinnings. Unit G1 is an Irregular Shelterwood and Unit E3 is a Variable Density Mosaic.

#### B. Unit Designations:

**Individual Cut Tree Marking (ITM) K-C.3.5.9#:** In cutting units G3, G4(Opt.), G5, and G11 individual trees to be cut are marked with a horizontal stripe of blue paint at d.b.h. and a blue paint mark below stump height.

<b>Unit</b>	<b>Species Designation (SD) K-C.3.8#</b>
G1	Cut all LP, AF, S, H, and GF meeting utilization standards. Cut all DF, C <14" dbh (17 inch stump dia) and cut all L<10" dbh (12" stump dia) meeting standards. All small trees meeting non-saw utilization standards are designated for removal, except in the SMZ. In addition cut all trees marked with blue paint.
G2 (Opt.)	Cut all LP meeting utilization standards. Cut all DF, L, GF, S, C, AF, H < 12" dbh (15" stump dia) meeting utilization standards. In addition cut all trees marked with blue paint. In Streamside Management Zones (SMZ) leave all trees marked in orange paint.
G6 (except SMZ)	Cut all LP, AF, H, and GF meeting utilization standards. Cut all DF < 12" dbh (15" stump dia) meeting utilization standards. Cut all C, L, S < 7" dbh (9" stump dia) meeting non-saw utilization standards. All small trees meeting non-saw utilization standards are designated for removal.
SMZ (G6,G7H,G7S)	Cut all DF <12" dbh (15" stump dia) and all LP sawlogs meeting utilization standards.
G7S (except SMZ)	Cut all LP, AF, and H meeting utilization standards. Cut all DF < 12" dbh (15" stump dia) and all GF < 17" dbh (20" stump dia) meeting utilization standards. In addition cut all trees marked with blue paint. Cut all C, L, S < 7" dbh (9" stump dia) meeting non-saw utilization standards. All small trees meeting non-saw utilization standards are designated for removal.
G7H (except SMZ)	Cut all LP, AF, C, and H meeting sawlog utilization standards. Cut all DF < 12" dbh (15" stump dia) and all GF < 17" dbh (20" stump dia) meeting sawlog utilization standards. In addition cut all trees marked with blue paint.
G8	Cut all LP, AF, S, H, and GF meeting utilization standards. Cut all DF, C <14" dbh (17" stump dia) and cut all L<9" dbh (11" stump dia) meeting standards. In addition cut all trees marked with blue paint.
G10	Cut all L, DF, C < 7" dbh (9" stump dia) meeting non-saw utilization standards. In addition cut all trees marked with blue paint.
E3	Cut all LP meeting utilization standards. Cut all DF, L, GF, S, C, AF, H, PP, WP <10" dbh (12" stump dia). All small trees meeting non-saw utilization standards are designated for removal.
E8	Cut all LP, AF, S, meeting utilization standards. Cut all C, H, DF <9" dbh (11" stump dia) meeting utilization standards. Cut all GF <12" dbh (15" stump dia) meeting utilization standards. Cut all L, PP <7" dbh (9" stump dia) meeting non-saw utilization standards.

Note: Tops of sawlogs meeting non-sawlog utilization standards are designated for removal in all units, except in helicopter Unit G7H. In the SMZ's whole tree yarding sawtimber is required.

## **V. Logging Plan**

### **A. General:**

Helicopter logging is required on units G2, G4, and G7H. A limited operating period of no spring helicopter logging from April 1 – June 14 will apply to units G2, G4, and G7H.

Skyline yarding is required on units G7S, and E8. E3 will be a skyline swing system, using a snow road and tractor to swing logs to a landing site.

Tractor skidding is suitable on units G1, G3, G5, G6, G8, G10, and G11. Tractor logging shall only occur when one or more of the following conditions exist: 18 inches of settled snow, 4 inches of frozen ground, 24" snow layer, or an adequate slash mat.

Mechanized felling shall be approved in advance. No felling equipment in the SMZ's. Any designated timber in the SMZ that the felling equipment cannot reach from outside the SMZ shall be hand felled. No excavated skid trails are planned, but if constructed shall be fully recontoured after use by the purchaser.

Existing skid trails/roads in units G3 and G10 shall be decompacted after use as a mandatory stewardship project.

All units except for the helicopter units require mandatory removal of tops of sawlogs.

No hauling operations will occur on weekends or federal holidays.

Protect the reserve trees PP and L > 20" dbh in units G1, G2, G6, G7H, and G7S. Purchaser shall be charged \$2500 for each reserve tree cut, damaged or destroyed.

Within the SMZ's in units G2, G6, G7H, and G7S where limited timber harvesting will be conducted: remove only DF <12" dbh, and LP. In unit G2 leave trees have been marked with orange paint. In addition, there are special requirements including: whole tree yarding, hand falling, full suspension when skyline yarding, as much as possible, and no ground-based equipment. In all other units, there will be no activities permitted in the SMZ's, including no harvesting, and no equipment.

Wet areas (elk wallows) in or adjacent to units G1 and G10 have been omitted from cutting units and marked with an orange-painted boundary.

Along roads 402 and 2190 in all cutting units, whole trees shall be yarded to landings within 150' of system roads and private property. This will include whole tree yarding in all of units G5, G8, and G11.

Log unit G6 before G7H to utilize the same landings. Log units G6, G7H, and G7S within three consecutive seasons to facilitate underburning.

**B. Timber Characteristics: Mandatory units only.**

	<b>Tractor</b>	<b>Skyline</b>	<b>Helicopter</b>	<b>Swing</b>	<b>Total/Ave.</b>
Net Volume (CCF)	2796	1887	1897	791	7371
Net Cut Vol/Ac (CCF)	11.1	14.4	15.2	6.8	12.5
Total Acres	253	131	125	117	626
Total Trees	19,980	19,077	15,976	11,244	66,277
Percentage by Volume	38%	25%	26%	11%	100%
Ave. External Yard Distance	700'	600'	1100'	600'	
Ave. DBH	9.2	9.5	10.0	8.5	9.4

**C. Skyline Analysis:** Analysis using LoggerPC has shown that all skyline units are feasible. Profiles are available for review at the Bonners Ferry District office. Mobile tailholds and intermediate supports may be necessary to log unit E8.

## VI. Transportation System

### A. Average haul route to sale center:

Road Name	Road Number	Mileage
Kootenai Ridge Road	2190	2.0
Snow Creek Road	402	5.5
Lion's Den Road - County	C13	2.2
Deep Creek Road - County	C2	3.0
US Highway 2	US2	12.0
Moyie Mill Road - City	Cty 83	0.5
<b>Total</b>		<b>25.2</b>

**B. Road construction or reconstruction:** Road work that will occur within perennial streams would only occur after July 15 and before September 15, to minimize erosion and sedimentation during spring runoff for protection of the aquatic habitat.

Road Number	Road Name	Type of Work	Road Mileage
2190	Kootenai Ridge	Reconstruction	3.2
402A	Snow Creek A	Reconstruction	0.9
402	Snow Creek	Reconstruction	5.5
<b>Total</b>			<b>9.6</b>

**C. Temporary roads:** No new temporary roads will be constructed. One temporary road (old 402C) will be needed to access a landing site in unit G5. The portion of the road being used is currently existing and open. It will later be decommissioned under a stewardship project.

**D. Road Maintenance:** A deposit will be collected for surface replacement and vegetative brushing for all Forest Service roads in the haul route. Contractor shall be responsible for recurrent maintenance, including dust abatement. An allowance will be made for snowplowing on Forest Service maintained roads, for units requiring winter logging. All access roads must be carefully plowed and frequent cross drains created to prevent mass failures of roads.

1. Snowplowing: Estimate miles of 1 plowing/week & 1 winging/2 weeks on rds 2190 (to unit E3), 402, and 402A for 8 weeks/season for 2 seasons:

$$\begin{aligned}
 16 \text{ plowings} & \times \$ 80.32/\text{hr (grader \& operator)} \times 9 \text{ miles} / 3 \text{ miles/hr} & = \$ 3,855 \\
 8 \text{ wingings} & \times \$ 90.01/\text{hr (dozer \& operator)} \times 9 \text{ miles} / 1 \text{ mile/hr} & = \$ 6,481 \\
 \text{Total Cost} & = \$10,336 & \text{Cost/CCF} = \mathbf{\$1.40}
 \end{aligned}$$

2. Dust Abatement: One application of Calcium Chloride (CaCl) flakes on road 402 will be applied under the specified road package and another application under the contract K-F.3.1#. Price quote from Tom Oxford, Moyie Springs, ID for one application CaCl flakes (77%), watered and applied, is \$350/ton and 9.4 ton/mile (estimate 52 tons).

$$\$350/\text{ton} \times 9.4 \text{ ton/mile} \times 5.5 \text{ miles} = \$18,095$$

$$\text{Cost/CCF} = \$2.45$$

**E. Noxious Weed Pretreatment:** Field reviews have found the occurrence of noxious weeds within the timber sale area. Logging equipment used in the area along with road reconstruction equipment could potentially disturb the area creating a risk of further invasion and establishment by the weed species. In order to help control the weeds, the purchaser will be required to spray herbicides along system road 402 used in conjunction with this timber sale, as described under K-G.2.7# (pre and post-haul).

Road Number	M.P. to M.P.	Mileage
402	From the jct w/rd 2190 to county road 13.	5.5
Total		5.5

$$\$326/\text{mile} \times 5.5 \text{ miles} \times 2 \text{ applications} = \$ 3,586$$

$$\text{Cost/CCF} = \$ .49$$

**F. Closure to Use by Others:** The contractor shall furnish and install a farm-style gate on road 2190 at the junction with road 402. It can be locked open, unless needed to be closed by the Forest Service to limit public access due to a hot, dry summer fire season. An allowance shall be made in the appraisal.

## VII. Erosion Control

### A. General:

Application shall be during the period from May 1 to June 15, and/or September 1 to September 30. Seed shall be applied evenly at the rate of 18 pounds per acre (moist site mix) and 200 pounds per acre of fertilizer type: 16N – 16P – 16K or 10N – 16P – 10K. Erosion control measures should be done by the end of the normal operating season to prepare for overwintering.

Landings, skid trails/corridors, and temporary roads shall be seeded, fertilized, and if needed waterbarred. Temporary road seeding and fertilizing cost is included in the road obliteration cost.

Area to Seed	Acres
Landings	8.0
Skid trail/corridors	5.0
Total	13.0

**B. IPNF Standard Moist Site Seed Mix** - appropriate for roadside application on low to middle elevation sites that have moderate moisture.

SPECIES	PLS LBS/AC
Slender wheatgrass "Pryor" or "Revenue" ( <i>Elymus trachycaulus</i> ssp. <i>trachycaulus</i> )	3.0
Sheep fescue "Durar" ( <i>Festuca ovina</i> )	5.0
Mountain brome "Bromar" ( <i>Bromus marginatus</i> )	5.0
Annual rye ( <i>Lolium multiflorum</i> )	4.0
Streambank wheatgrass "Sodar"	1.0
<b>TOTAL</b>	<b>18.0</b>

**Acceptable substitutes:**

Blue wildrye "Arlington" or "Elkton" (*Elymus glaucus*) @ 3 PLS LBS/AC for slender wheatgrass

Use of Alsike clover has been removed since it would conflict with other resource values (e.g. grizzly bear habitat).

**C. Costs:**

Seed: 18 lbs/ac x 13 acres = 234 lbs x \$1.42/lb = \$ 332  
 Fertilizer: 200 lbs/ac x 13 acres = 2,600 lbs x \$.16/lb = \$ 416  
 Labor: 13 ac x 1/3 manday/ac x \$ 212/manday = \$ 919  
 Transportation: 50 mi/trip x \$.30/mile x 2 trips = \$ 30  
 Total Erosion control needs = \$1,697  
**Cost/CCF = \$.23/CCF**

**VIII. Sale Area Improvement**

Unit G1, and openings in unit E3 and in Group Selection areas are planned for natural regeneration. There are no planting needs and no KV plan.

**IX. Hazard Reduction and Site Preparation – Units G2, G4 are optional units**

**A. Contractor requirements:** Limb, lop and scatter slash in all units except where whole tree yarding is required. Whole tree yarding (WTY) is required within 150 ft of open roads and private property in units G1, G2, G3, G4, G6, G7H, G7S, G10, E3, and E8. Units G5, G8, and G11 will require whole tree yarding on all acres. WTY is also required in Streamside Management Zones in units G1, G2, G3, G4, G6, G7H, and G7S. An allowance for WTY will be made only in the helicopter units. Buck slash into 12 ft pieces in units to be grapple piled (G1, G3, G10, E3, E8). Fell damaged residuals in unit G11. Pile all landing slash.

**B. Forest Service requirements (Brush Disposal):** Burn all grapple piles in units G1, G3, G5, G8, G10, G11, E3, and E8. Underburn units G6, G7H, and G7S (split funding with WFHF). Underburning shall be done in the spring to protect soils and residual vegetation. Burn all landing piles. No firelines are planned.

The remaining slash treatment of activity fuels will be accomplished as stewardship projects under K-G.9#, as identified below. Natural fuels in cutting units will be treated with WFHF funding, in coordination with the stewardship projects and BD.

**C. Stewardship Projects:** Slashing shall be done prior to grapple piling, preferably in the first summer season after logging. Piling shall occur as soon as ground conditions will allow after slashing.

Item Number	Mandatory Items Work Activity Description
1	Skid Trail/Road Decompaction - in Units G3, G10
2	Road Decommissioning – above unit G5
3	Leave Tree Protection - Units G6, G7H, G7S
4	Slashing - Units G1, G3, G5
5	Machine Slash Piling - Units G1, G3, G5, G11

Item Number	Optional Items Work Activity Description
6	Slashing – Units G8, G10, E3, E8
7	Machine Slash Piling – Units G8, G10, E3, E8
8	Leave Tree Protection Unit G2 (optional)
9	Noxious Weed Treatment - Road 402

**X. Other Provisions**

**A. Period of contract:**

1. Normal operating season:
  - June 15 to October 31 for units G2, G4, G7H, G7S, E8, and the road work.
  - December 1 to March 31 for units G1, G3, G5, G6, G8, G10, G11 and E3.
2. Termination date: December 31, 2013.
3. Road Completion Date: October 31, 2009.

**B. Purchaser fire liability:**

Total number of personnel/crew	12
Number of hours/day	12
Total hours/crew day	144
Hourly rate AD-3 firefighter	\$13.24
Average daily cost	1,907
Average fire length	5 days
Purchaser obligation for fire operation	9,533
Rounded up to the nearest \$100	9,600

**XI. Notification of Forest Practices**

X	Harvest of forest tree species.
	Road construction associated with harvesting trees.
X	Reforestation – Natural Regeneration
	Use of chemicals or fertilizers for the purpose of growing or managing trees.
X	Slashing or use of prescribed fire resulting from harvest or other management activities.
X	Site specific BMP's.
	Lake present.
	Class 1 stream present.
X	Steep slopes.
	Unstable or erodible soils present.
	Stream crossings anticipated.

**XII. Sale Objective Code**

<b>Purpose</b>	<b>Activity</b>	<b>Percentage</b>
FS -- Forest Stewardship Purpose	10 -- Forest and Ecosystem Health	50
FS – Forest Stewardship Purpose	40 -- Fisheries Habitat and Watershed Improvement	50