City of Kimberley
Urban Interface Fuels Reduction
STAND MANAGEMENT PRESCRIPTION
Kimberley Nature Park

ADMINISTRATION			
Proponent	**Treatment Unit**		
City of Kimberley	Steep hand treatment 3-5		
Legal Description		**BCGS Mapsheet**	**Landscape Unit**
Kimberley Nature Park		**82G061**	C08

AREA DESCRIPTION (ha)

There are two stand types within this unit, they are referenced as units 3-5 and 3-6 on the CWPP Phase 3. The first stand is located on slopes with south and southeast aspects with slopes ranging from 50 – 57%. The current stand density approaches 2,483 sph. (Douglas-fir77%, Western larch 11%, Rocky mountain juniper 7%, Subalpine fir 3% and Lodgepole pine 3%). The unit is located to the east of 4 corners with the Lower Army Trail splitting the middle of the unit. Romantic Ridge Trail shares the northern boundary. A creek runs from west to east along the Lower Army Trail. Wetter site associations appear along this watercourse with similar stand densities. However, the species breakdown changes to Douglas-fir 39%, Western larch 17%, Engelmann spruce 10%, Subalpine fir 14%, Lodgepole pine 10% and Rocky Mountain Juniper 10%.

SU	GROSS AREA (ha)	NON-PRODUCTIVE AREA (ha)		RESERVES (ha)	NET AREA (ha)
		NAT	UNN		
1	5.05	0.00	0.05	0.00	5.00
2	.65	0.00	0.00	0.05	0.60
TOTAL	**5.70**	**0.00**	**0.05**	**0.05**	**5.60**

MANAGEMENT OBJECTIVES:

- To reduce the probability of catastrophic fires within the City of Kimberley's municipal boundary
- To increase the resiliency of the forests within the Kimberley Nature Parks to wildfire and lower the probability of catastrophic damage.
- To protect the value of the park as an important community asset.

  This will be achieved by reducing surface fuel loading and by lowering canopy fuel loading through stand treatments including under-storey thinning, piling and burning of conifer stems.

  Broad Overview Ecosystem Restoration/Management Plan Treatment Proposal

  Medium Open Forest 150 – 400 sph

  No Treatment

SU	CRITICAL SITE FACTORS (affecting the timing of operations and the manner in which they affect them)
All	The treatment area is within the Kimberley Nature Park and is heavily used by recreationalists. Signage should be considered for safety and public awareness.
All	Reserve area adjacent to creek from treatment.
All	Trails within or adjacent to unit: Romantic Ridge, Lower Army Road and 4 Corners Junction.
All	Remove all litter and waste associated with the treatments at the end of each day.
All	Disturbance to trail surfaces should be minimized.
All	Workers should cross creek R5 at designated points.
All	Assess wildlife danger trees to level 3 standards. Retain only high value snags or actively used snags as per the wildlife danger tree protocol.

ECOLOGICAL DESCRIPTION						
EU	SU	NDT	BEC ZONE	SUBZONE VARIANT	SITE SERIES (% composition)	GRID LOCATION (SMR / SNR)
1	1	4	MS	dk	04	3-4 / C
1	2	4	MS	dk	04/06	3-6 / C-D

TERRAIN DESCRIPTION								
SU	SLOPE (%) DOMINANT (RANGE)	L/U	ASPECT	SLOPE POSITION	GULLIED (Y/N)	DRAINAGE	ELEVATION (m)	
							MIN	MAX
1	50 (50-57)	L/U	S SE	mid	N	Well-Rapid		
2	40 (0-65)	L/U	N	Mid -Lower	N	Well-Poor		

RIPARIAN MANAGEMENT STRATEGIES					
SU	WATERBODY NAME / TYPE	RIPARIAN CLASSIFICATION			
		RIPARIAN CLASSIFICATION	RIPARIAN RESERVE ZONE RRZ (M)	RIPARIAN MANAGEMENT ZONE RMZ (M)	RIPARIAN MANAGEMENT AREA RMA (M)
All	R5	S6	0	20	20
	Implementation of this Stand Management Prescription is not anticipated to have an impact on either of these riparian features.				

FOREST HEALTH MANAGEMENT STRATEGIES

MANAGEMENT STRATEGIES FOR ARCHAEOLOGICAL SITES

MANAGEMENT STRATEGIES TO MANAGE AND CONSERVE ARCHAEOLOGICAL SITES

An archaeological overview assessment has been completed for this area. The area is not contained within any polygons identified as having a moderate or greater potential for containing areas of archaeological significance.

STAND MANAGEMENT TREATMENTS

PASS 1 - SURFACE FUELS REDUCTION

Objective: To reduce Coarse Woody Debris accumulations on the forest floor.

Treatment:

- **Retain Coarse Woody Debris that is not sound**, **otherwise:**
- Buck, pile and burn all sound coarse woody debris on the forest floor.
- Pile material into piles not exceeding 1.5 m in diameter by 1.5 m in height. Burn piles should be located at the bottom of existing canopy openings and on old inactive trails to minimize damage to residual stems during burning operations. See treatment standards for fuel treatments in the WUI in Kimberley.

PASS 1 – LADDER FUELS REDUCTION

Objective: To reduce ladder fuels by thinning, piling and burning selected species by diameter class(s).

Treatment:

- **Cut all mature, dead or dying deciduous species. *Do not* cut young and vigorous stems.**

- SU 1
  Remove all stems <22.5cm dbh.
  Target Post Treatment Stand Density = 249
- SU2
  Remove all stems <20cm dbh.
  Target Post Treatment Stand Density = 240

Option 1
Pile thinned material into piles not exceeding 1.5m in diameter by 1.5m in height. Burn piles should be located at the bottom of existing canopy openings and on old inactive trails to minimize damage to residual stems during burning operations. See treatment standards for fuel treatments in the WUI in Kimberley.

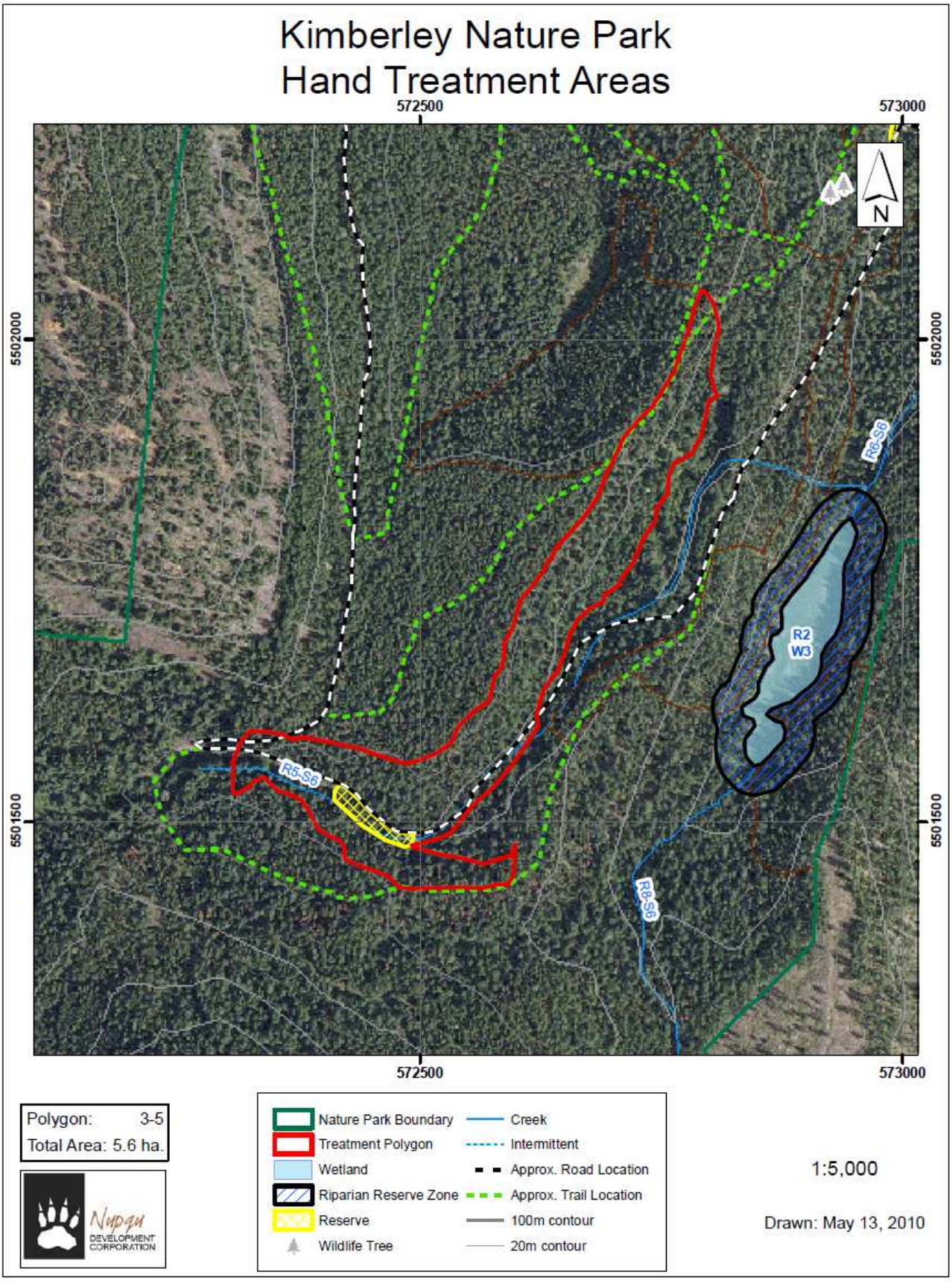
POST-BURNING TREATMENT AND FOLLOW-UP

1. Seed soil area affected by burning in the spring following burning with a seed mix suitable for areas of high burn severity.
2. Monitor wind/snow damage post-treatment and assess for follow up treatment to address overwinter snow press, wind damage, *etc.*
3. Monitor surface fuel characteristics and assess for 5 years following treatment.

I certify that the work described herein fulfills the standards expected of a member of the Association of British Columbia Forest Professionals and that I did personally supervise the work.

May 30, 2010

Brian Watson , R.P.F. — DATE


Kimberley Nature Park
Hand Treatment Areas
572500
573000
5502000
5501500
N
R6-S6
R2
W3
R5-S6
R8-S6
Polygon: 3-5
Total Area: 5.6 ha.
Nupqu
DEVELOPMENT CORPORATION
Nature Park Boundary
Treatment Polygon
Wetland
Riparian Reserve Zone
Reserve
Wildlife Tree
Creek
Intermittent
Approx. Road Location
Approx. Trail Location
100m contour
20m contour
1:5,000
Drawn: May 13, 2010

SU 1

Diameter Class (cm)	PSME	LAOC	JUSC	ABLA	PICO	Total
0.0-5.0	1433	0	167	67	33	1700
5.1-7.5	0	133	0	0	0	133
7.6-10.0	167	0	0	0	0	167
10.1-12.5	0	0	0	0	0	0
12.6-15.0	67	100	0	0	33	200
15.1-17.5	33	0	0	0	0	33
17.6-20.0	0	0	0	0	0	0
20.1-22.5	0	0	0	0	0	0
22.6-25.0	30	0	0	0	0	30
25.1-27.5	23	24	0	0	0	47
27.6-30.0	41	0	0	0	0	41
30.1-32.5	18	0	0	0	0	18
32.6-35.0	15	0	0	0	0	15
35.1-37.5	38	0	0	0	0	38
37.6-40.0	12	0	0	0	0	12
40.1-42.5	39	10	0	0	0	49
42.6-45.0	0	0	0	0	0	0
45.1-47.5	0	0	0	0	0	0
47.6-50.0	0	0	0	0	0	0
50.1-52.5	0	0	0	0	0	0
52.6-55.0	0	0	0	0	0	0
55.1-57.5	0	0	0	0	0	0
57.6-60.0	0	0	0	0	0	0
60.1-62.5	0	0	0	0	0	0
62.6-65.0	0	0	0	0	0	0
65.1-67.5	0	0	0	0	0	0
67.6-70.0	0	0	0	0	0	0
70.1-72.5	0	0	0	0	0	0
72.6-75.0	0	0	0	0	0	0
75.1-77.5	0	0	0	0	0	0
77.6-80.0	0	0	0	0	0	0
	1916	267	167	67	67	2483

thin
retain

SU 2

Diameter Class (cm)	PSME	LAOC	JUSC	ABLA	PICO	PIEN	Total
0.0-5.0	700	0	250	300	100	0	1350
5.1-7.5	0	200	0	0	0	0	200
7.6-10.0	100	50	0	50	0	50	250
10.1-12.5	0	0	0	0	0	0	0
12.6-15.0	50	151	0	0	50	0	251
15.1-17.5	50	0	0	0	0	105	155
17.6-20.0	0	0	0	0	71	0	71
20.1-22.5	0	0	0	0	0	51	51
22.6-25.0	0	0	0	0	0	0	0
25.1-27.5	35	36	0	0	36	0	106
27.6-30.0	0	0	0	0	0	0	0
30.1-32.5	0	0	0	0	0	0	0
32.6-35.0	23	0	0	0	0	22	45
35.1-37.5	0	0	0	0	0	0	0
37.6-40.0	0	0	0	0	0	0	0
40.1-42.5	15	0	0	0	0	15	29
42.6-45.0	0	0	0	0	0	0	0
45.1-47.5	0	0	0	0	0	0	0
47.6-50.0	0	0	0	0	0	0	0
50.1-52.5	10	0	0	0	0	0	10
52.6-55.0	0	0	0	0	0	0	0
55.1-57.5	0	0	0	0	0	0	0
57.6-60.0	0	0	0	0	0	0	0
60.1-62.5	0	0	0	0	0	0	0
62.6-65.0	0	0	0	0	0	0	0
65.1-67.5	0	0	0	0	0	0	0
67.6-70.0	0	0	0	0	0	0	0
70.1-72.5	0	0	0	0	0	0	0
72.6-75.0	0	0	0	0	0	0	0
75.1-77.5	0	0	0	0	0	0	0
77.6-80.0	0	0	0	0	0	0	0
	982	436	250	350	257	241	2515

thin

retain