

DETAILED SITE ASSESSMENT FOR FORESTRY HERBICIDE APPLICATIONS

1. Tenure Identification

LICENSEE NAME:	BCTS – Chinook Business Unit	PMP NUMBER:	402-0670-17/22
DISTRICT:	Chilliwack Natural Resources District		

2. Location, Access and History

OPENING NO.	92H032-324	LICENCE:	A91265	CP / BLOCK:	APR-91265/RU080
GENERAL LOCATION:	Chilliwack Forest District	SPECIFIC LOCATION:	Ruby Creek	LAT / LONG:	49° 21' 24" N 121° 37' 51" W
STANDARDS UNIT:	1 & 2	SLOPE / ASPECT:	10-50% (30% avg)/ V	ELEVATION RANGE:	200-280 m
ACCESS:	Drive	4X4	Access Details: Follow Ruby-Dadswell FSR for 1.5 km. Block is accessible from mainline or use ATV for in-block roads	HISTORY:	DIST 14 PL 16

3. Target Vegetation Description, Objective and Rationale for Treatment

TREATMENT UNIT:	A
AREA (ha):	11.5
TARGET VEGETATION: (common name)	Alder, Birch, Cherry, Cottonwood, Elderberry, Ferns, Fireweed, Raspberry, Salmonberry, Thimbleberry
DECIDUOUS TREE HT (m) / SPH / DIAM (cm):	1.8 m / 500 sph / 1-2 cm
SHRUB HEIGHT (m) / % COVER:	1.24 m / 20%
HERB HEIGHT (m) / % COVER:	1.0 m / 35%
NON-TARGET VEGETATION:	conifers
PRIMARY OBJECTIVE:	Brushing
Rationale For Treatment:	60% of crop trees are under VS/VT which is expected to impede conifer growth. Conifers require preventative brushing treatment to release them from shrub and herbaceous competition, and minimise mortality due to VS/VT. Recommend BR CG BPACK for overtopping herbs, shrubs & hardwoods within 2.0 m of conifers. High brush hazard site as indicated by brushing history of other openings in this area

4. Crop Tree Description and Recent Survey Activity

CROP TREE SPECIES / HEIGHT (m) / WS (sph):	Fd,Cw 0.3 / 730
% IMPEDED BY BRUSH: (Total WS)	60%
PREF (ACC) SPECIES: (From SP)	Fd,Cw (Pw,Hw,Bg)
RECENT SURVEY:	SU SU PLOT / 2016 08

5. Pesticide, Treatment Methods and Timing

TREATMENT UNIT:	A
PRODUCT:	Vision (Glyphosate)
METHOD:	Backpack
TECHNIQUE:	spray
MAX APPLICATION RATE (kg / ha ai):	1.5-2.1 kg ae/ha
EST. PRODUCT REQUIRED (L):	47.5
APPLICATION TIMING:	August – October 2016

6. Bodies of Water, Water Courses and Wetland Areas

RIPARIAN FEATURE ID	RIPARIAN CLASS	ACTIONS PRESCRIBED TO PROTECT RIPARIAN FEATURES
n/a	n/a	No bodies of water, water courses, or wetland areas noted

7. Other Resource Values and Interests

CONCERNS IDENTIFIED		ACTIONS PRESCRIBED TO PROTECT OTHER RESOURCE VALUES	
Crop Trees		Target all overtopping vegetation within 2.0m radius of crop trees. Use caution to avoid spraying conifers in areas where brush is not overtopping crop trees. Do not treat brush where conifers are not overtopped/protected by vegetation. Ensure conifer buds are hardened off and leaders are <u>not</u> succulent before beginning treatment.	
DSA PREPARED BY:	Janet Li, reviewed by Matt Day	FOR:	B.A. Blackwell and Associates Ltd.
DATE:	13 January 2017	ATTACHMENTS:	Map

1. 1st SE sliver does not need treatment



2. Mainly raspberry and fern brush



3. Patches of thick Ep



4. Planted Cw overtopped by brush



5. Planted Fd under sword fern



6. Thick raspberry everywhere - E corner of opening



Site Plan Map Block RU080

Management Areas

Riparian Stream Class-FISH:

(S1/S4) Sampled

(S1/S4) Gradient

(Unknown class) Gradient

Riparian Stream Class-NO FISH:

(S5/S6) Sampled

(S5/S6) Gradient

(Unknown class) Gradient

Non-classified Drainage

Seepage

Stream Class and Reach Break

Water Body ID #

Retention Patch (Engineered)

Retention Trees

Wildlife Tree Retention Area

Windfall

Lot Boundary

Machine Free Zone

Slopes greater than 35%

Site Plan													
Blk	Standard Unit	Eco Unit	BioGeo SubZone	Site Series	Silviculture System	Stock I.D.	Area Summary (ha)				N A R		
							Gross	Perm. Access	Rock / Brush	Retention			Other
RU080	1	A	CWHdm	05_70_01_25_03_5	Retention	1009471	10.04	0.84		0.50			9.54
	2	B	CWHdm	01_03_40_40	Retention	1009467	3.13			0.27			2.02
	WTRA						1.41						
Total							14.58	0.84		0.77			11.56

Stocking Standards									
PREFERRED (ACCEPTABLE) SPECIES (Min.Ht.(m.))	Target Preferred/Acceptable	Minimum Preferred/Acceptable	Minimum Preferred	Regen. Delay (Years)	FG Late (Years)	Min. inter-tree dist. (m)	Min. Height relative to comp.		
Cw 2.0, Fd 4.0, (Pw 2.5, Hw 4.0, Bg 3.5)	900	500	400	3	20	2.0	150%		
Cw 1.5, Fd 3.0, (Hw 3.0, Pw 2.5)	900	500	400	3	20	2.0	150%		



Date: July 28, 2014

BCTS
BC Timber Sales
Chinook

TSL A91265

Scale: 1 : 5 000

Forest Region: Coast

Forest District: Chilliwack

Forest Development Unit: East Harrison

Location: Ruby (Mahood) Creek

Map #: 092H032

U.T.M.: 10

Declination: 16°58' East

Stream Summary Table				
Stream Reach #	Class	Reserve Zone Width (m)	Mgmt. Zone Width (m)	Machine Free Zone Width (m)
* A	NCD	-	-	-
* B	S6	0	20	5
* C	NCD	-	-	-
* D	NCD	-	-	-
* E	NCD	-	-	-
* F	NCD	-	-	-
* G	NCD	-	-	-
* H	NCD	-	-	-

* Clean Streams of large introduced transportable debris - post harvest.

Legend

Falling Boundary

Standard Unit Boundary

Falling Corner

Forest Service Road

Existing Road

Proposed Roads:

Haul Road - construction

Haul Road - Maintenance

Haul Road -Reconstruction

Designated Skid Trail

Machine Crossing (creek)

Reference Point

Bridge

Culvert

Slide

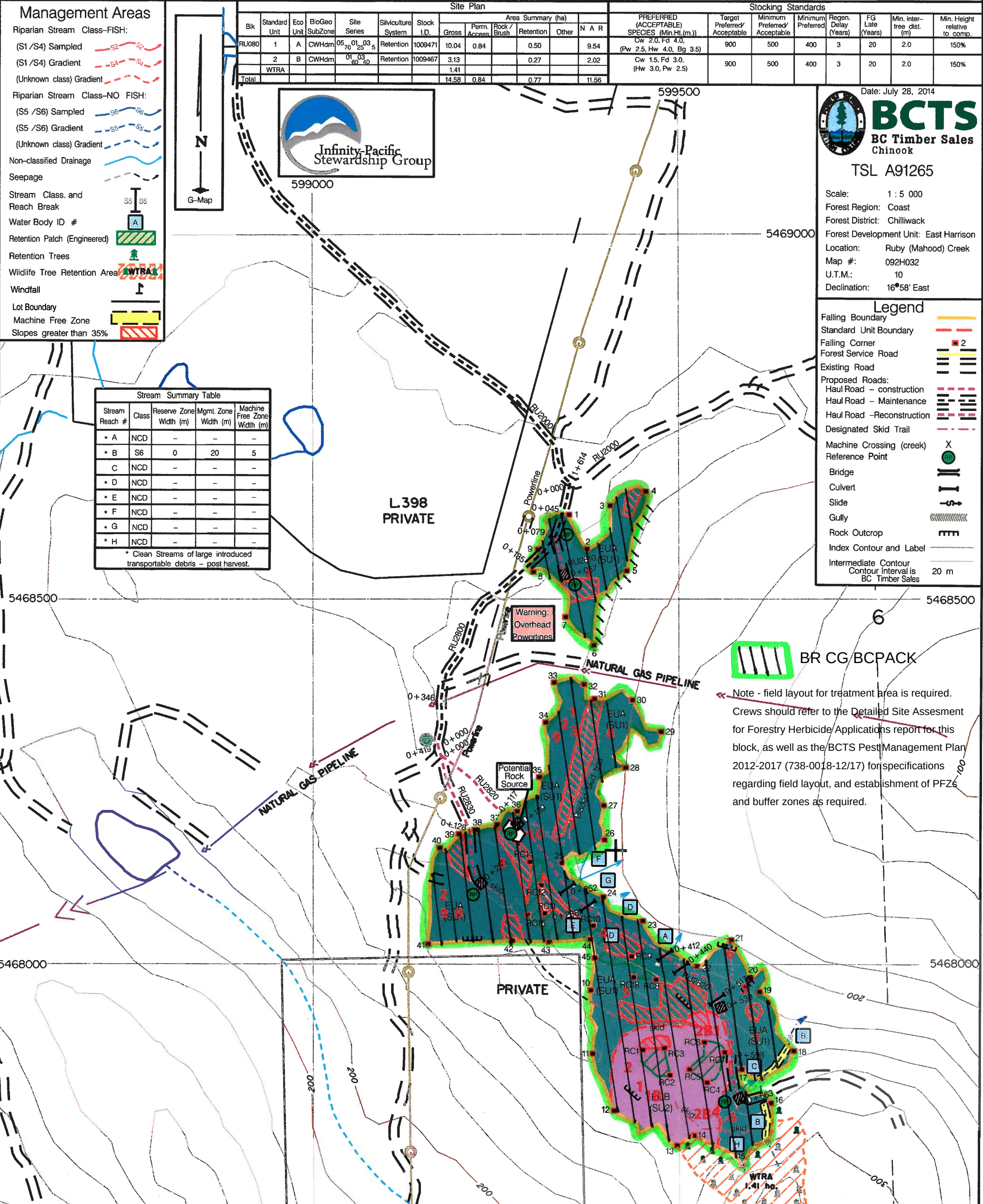
Gully

Rock Outcrop

Index Contour and Label

Intermediate Contour

Contour Interval is 20 m



BR CG/BCPACK

Note - field layout for treatment area is required. Crews should refer to the Detailed Site Assessment for Forestry Herbicide Applications report for this block, as well as the BCTS Pest Management Plan 2012-2017 (738-0018-12/17) for specifications regarding field layout, and establishment of PFZs and buffer zones as required.

Project: PL17TBB001 Spring
Plant Dates: Mar 23, 2016 to Mar 31, 2016
Contractor: ZANZIBAR

Lat: 49.36 Long: 121.63

Site Name	Area	PSS	TSS	MS	Type	Low	High	Spp	%Mix	Seedling Label	Planted
RU080, 1	9.5	1,200	1,200	2	PL	200	280	CW	24%	CW, 2015DCK0002, 63443, PRTHY, 412B	2,535
RU080, 1	9.5	1,200	1,200	2	PL	200	280	FDC	76%	FDC, 2015DCK0001, 60591, PRTHY, 412B	8,070
RU080, 2	2.0	1,200	1,200	1.5	PL	200	280	CW	17%	CW, 2015DCK0002, 63443, PRTHY, 412B	345
RU080, 2	2.0	1,200	1,200	1.5	PL	200	280	FDC	63%	FDC, 2015DCK0018, 60591, PRTHY, 512A	1,275
RU080, 2	2.0	1,200	1,200	1.5	PL	200	280	PW	20%	PW, 2015DCK0004, 60683, SYLVANVALE, 412A	400

Site Name	Date	User	Notes
RU080, 1	Mar 30, 2016 9:44 AM	chris.runnals@gov.bc.ca	Mainline access to block. In block roads ATV accessible. Debris piles all burned. Establishing vegetation competition, likely to require control. Lots of deciduous trees emerging. Shrubs already established. Scattered NP rock outcrops with thin shallow organic soils

PLOTS ARE RED #'S

Seedling Label	Nursery	Planted	#/box	Boxes	Delivered
CW, 2015DCK0002, 63443, PRTHY, 412B	PRTHY	2,880	300	9.6	2,680
FDC, 2015DCK0001, 60591, PRTHY, 412B	PRTHY	8,070	300	26.9	8,070
FDC, 2015DCK0018, 60591, PRTHY, 512A	PRTHY	1,275	132	9.7	1,275
PW, 2015DCK0004, 60683, SYLVANVALE, 412A	SYLVANVALE	400	180	2.2	400

SCALE 1:5 000

250 375 Metres