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.	92H.042-121	**LICENCE:**	A88549	**CP / BLOCK:**	APR-88549/CB113
GENERAL LOCATION:	Chilliwack Forest District	**SPECIFIC LOCATION:**	Harrison East / Slollicum Creek	**LAT / LONG:**	49° 24’ 55” N 121° 45’ 46” W
STANDARDS UNIT:	1	**SLOPE / ASPECT:**	10-60% (30% avg)/ W	**ELEVATION RANGE:**	200-320 m
ACCESS:	Drive 4X4	Access Details: Take Harrison East FSR. Access block from the mainline at ~9.5 km.		**HISTORY:**	DIST 12 PL 13

3. Target Vegetation Description, Objective and Rationale for Treatment

TREATMENT UNIT:	**A**
AREA (ha):	2.0
TARGET VEGETATION: (common name)	Alder, Birch, Cherry, Cottonwood, Maples, Willow
DECIDUOUS TREE HT (m) / SPH / DIAM (cm):	2.0-4.0 m / 800-1400 sph / 2-5 cm (3 cm avg)
SHRUB HEIGHT (m) / % COVER:	2.0 m / 15%
HERB HEIGHT (m) / % COVER:	1.0 m / 40%
NON-TARGET VEGETATION:	Herbs, shrubs
PRIMARY OBJECTIVE:	**Brushing**
Rationale For Treatment:	Brushing is required to control overtopping deciduous species including Mb, Dr, and Act. Ep. FG objectives (150% height of competing vegetation) will not be achieved without treatment of this area. Many planted trees were found dead from past VS suppression (15%), and a further 10% are currently under VS. However, surviving conifers have successfully emerged from lower herbs and shrubs and are now growing better.

4. Crop Tree Description and Recent Survey Activity

CROP TREE SPECIES / HEIGHT (m) / WS (sph)::	Fd,Cw 1.3 / 700
% IMPEDED BY BRUSH: (Total WS)	40%
PREF (ACC) SPECIES: (From SP)	Fd,Cw (Pw,Hw)
RECENT SURVEY:	SU BR WALK / 2016 11

5. Pesticide, Treatment Methods and Timing

TREATMENT UNIT:	**A**
PRODUCT:	Release (Triclopyr ester)
METHOD:	Basal spray
TECHNIQUE:	Streamline
MAX APPLICATION RATE (L/ha):	15.0
EST. REQUIRED PRODUCT (L):	8.4
APPLICATION TIMING:	April – June 2017

6. Bodies of Water, Water Courses and Wetland Areas

RIPARIAN FEATURE ID	RIPARIAN CLASS	ACTIONS PRESCRIBED TO PROTECT RIPARIAN FEATURES
A, B, C-1, C-3, D, F, G	S6	All streams and riparian features must be managed according to Table 3.1 - “Minimum Pesticide Free Zone and Buffer Widths” of BCTS, Chinook Business Area, Pest Management Plan #738-0018-12/17. ***Only non-classified drainages, J and K are near treatment unit 1, falling boundary was established to exclude most of these areas.**
C-2, L	W4	
E, H, I, *J, *K	NCD	

7. Other Resource Values and Interests

CONCERNS IDENTIFIED	ACTIONS PRESCRIBED TO PROTECT OTHER RESOURCE VALUES
Crop trees	Unit A: Target all competing hardwood stems within 2m of well-spaced conifers and those deciduous stems whose branches encroach within a 2 m radius of any well-spaced crop trees. Manually brush PFZ areas – keep all crop trees free from brushing slash concurrent with treatment.
Riparian areas	Establish a 10 m PFZ + 2 m buffer for backpack basal treatment near wet or dry S6 & NCD streams. All woody brushing slash must be removed from stream channels and ditches concurrent with brushing treatment. Do not fuel saw, transfer fuel, or store fuel within any riparian management area.

DSA PREPARED BY:	Janet Li, reviewed by Matt Day	**FOR:**	B.A. Blackwell and Associates Ltd.
DATE:	13 Jan 2017	**ATTACHMENTS:**	Map

Photo 1- Overview – patchy tall hardwoods

Photo 2 - Low stocking and high competition from thimbleberry, maple and alder

Photo 3 - Lower west part of opening, competition from thimbleberry, bracken, and maple

Photo 4 - Alder, cottonwood, maple and thick thimbleberry

Photo 5 - Some Fd growing well, patchy hardwoods

Photo 6 - Typcial VS tree

Site Plan Map Block CB113

Field Ribboning

Falling Boundary: Orange Printed
Riparian Reserve Zone: Orange Printed
Right of Way Boundary: Orange Printed
Riparian Mgmt. Zone: Orange Printed
Retention Patch: Orange / Black stripe
Road Reconnaissance: Yellow
Road Centre Line: Pink
Landing Location: Pink "Landing" (hand written)
Skid / Bladed Trail Location: Pink Printed
Deflection Line / Base Line: Green /White Stripe
Fish Stream: Red /White Stripe
Non–Fish Stream: Blue /White Stripe
Machine Free Zone: Red Printed
Traverse Station Marks: White
Culturally Modified Tree: Yellow Printed
Cruise Strip Lines: Blue
Cruise Plot Centre: Blue /Orange
Treatment Area: Green Printed
Retention Trees: Three Orange Dots (painted)

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
Riparian Lake Class (L1–L4)
Riparian Wetland Class (W1–W5)
Water Body ID #
Retention Patch (Engineered)
Retention Trees
Wildlife Tree Retention Area WTRA
Riparian Reserve Zone
Riparian Management Zone (Within Cutblock)

Date: April 13, 2011

BCTS
BC Timber Sales
Chinook

Scale:	1 : 5 000
Forest Region:	Coast
Forest District:	Chilliwack
Forest Development Unit:	East Harrison
Location:	Cascade Bay
Map #:	092H042
U.T.M.:	10
Declination:	17°11' East

N
G-Map

BR CG BASL

Note - field layout for treatment area is required. Crews should refer to the Detailed Site Assesment 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.

Riparian Summary Table

Stream Reach #	Class	Reserve Zone Width (m)	Mgmt. Zone Width (m)	Machine Free Width (m)
A	S6	0	20	–
B	S6	0	20	–
C–1	S6	0	20	–
C–2	W4	0	30	–
C–3	S6	0	20	–
D	S6	0	20	–
E	NCD	–	–	10
F	S6	0	20	5
G	S6	0	20	–
H	NCD	–	–	–
I	NCD	–	–	–
J	NCD	–	–	–
K	NCD	–	–	
L	W4	0	30	–

Road Construction Summary

HE2800 – Reconstruction 0+000 – 0+528	0.528 km
HE2810 – New Construction 0+000 – 0+781	0.781 km
HE3200 – New Construction 0+000 – 0+140	0.140 km
HE3100 – New Construction 0+000 – 0+114	0.114 km
HE3100 – Reconstruction 0+114 – 0+318	0.204 km
HE3200 – New Construction 0+000 – 0+140	0.140 km

Road Number	Road Station	Culvert Type	Culvert Dimensions Diameter	Culvert Dimensions Length	Culvert Skew
HE2800	0+066	WBC	1x3	10	90
HE2810	0+314	CMP	600	8	90
HE2810	0+451	CMP	600	8	90
HE2810	0+598	CMP	600	8	90
HE3100	0+071	CMP	600	8	90
HE3200	0+071	CMP	600	8	90
HE3200	0+071	CMP	600	8	90

Legend

Falling Boundary
Adjacent Falling Boundary
Harvested Cutblock
Standard Unit Boundary
Falling Corner 2
Existing Road
Existing Road (Reconstruction)
Existing Trail/old road
Proposed Roads:
Haul Road
Designated Skid Trail
Machine Free Zone
Reference Point
Bridge
Culvert
Slide
Gully
Rock Outcrop /Bluff
Index Contour and Label 100
Intermediate Contour
Contour Interval is 20 m
B.C. Timber Sales

SCALE 1:5 000
0 125 250 375 Metres

Site Plan

Blk	Standard Unit	Eco Unit	BioGeo SubZone	Site Series	Silviculture System	Stock I.D.	Area Summary (ha) Gross	Perm. Access	Rock / Brush	Swamp	Reserve /no modification	Retention	Other	N A R
CB113	1	A	CWHdm	01 03 05 75 20 5	Retention	1009467	12.77	1.93				0.33		10.51
	2	B		05 01 07 60 30 10	Retention	1009471	7.02	0.69				1.23		5.10
	WTRA						3.68				3.68			
Total							23.47	2.62			3.68	1.56		15.61

Stocking Standards

PREF. (ACC.) SPP	TSS	MSS(p&a)	MSS(p)	RD	FG Assess.	Min. inter–tree dist.	Ht. rel. to comp.
Fd, Cw (Hw,Pw)	900	500	400	3	20	2.0	150%
Fdc, Cw (Bg,Pw,Hw)	900	500	400	3	20	2.0	150%