



User Guide

**Revised April 30, 2023
Version 1.24**

Site Plan

Changes and Requests

Please submit via email to Andrew.Fraser@gov.bc.ca the following for review and scope priority:

User Guide name

Brief description of change request or issue to review

Both Step# and page #

Any support information to review

Distribution

TSN distribution of all user guides will be available on the local network at **G:\BCTS\Operations\LRM Resources\!Local LRM Userguides** in PDF formatted files and on the TSN SharePoint site.

Site Plan

Document Change Control

Version	Date of Issue	Author(s)	Brief Description of Change
1.0	April 18, 2005	Dennis Thideman Connie Viszlai Tom Birch	Original document
1.1	June 22, 2005	SOP Admin Review Team	Final Review and Proofing
1.2	Jan 25, 2006	TSN Staff Review	Localize to TSN Business needs
1.3	Mar 9, 2006	GENUS Steering Committee	Added change management info to the cover page
1.4	Mar 10, 2006	Silviculture WG	Update screen shots with mandatory fields Ecology data entry p. 5
1.5	April 2, 2006	TSN Staff Review	Update wording – delete pages.
1.6	Feb 28, 2007	Fred Waterer	Update standards section (Step 17)
1.7	March 6, 2007	Susan Salokannel	Data fields Appendix 1
1.8	June 28, 2007	Susan Salokannel	Update to FRPA compatible information
1.9	July 11, 2007	Susan Salokannel	Harvest Strategy Tabular and Spatial Link
1.10	January 30 2008	Susan Salokannel	Approved Variation
1.11	April 30, 2008	Susan Salokannel	Electronic Amendments, trouble shooting .xml, Updated screen shots
1.12	July 7, 2008	Andy Fraser	Populate Harvest Strategy, Season and Method
1.13	March 24, 2009	Susan Salokannel	Naming convention, Admin window, Basal Area and updated screen shots.
1.14	April 17, 2009	Susan Salokannel	Assign a silviculture system to PAS to facilitate denudation reporting
1.15	Nov. 25, 2009	Susan Salokannel	Eco Unit label, Stream naming convention, Balance of Eco Unit area to SP total area, Area tolerance update and various updated screen shots.
1.16	Feb. 5, 2010	Susan Salokannel	Update Allocation information at time of SP amendment
1.17	March 14, 2010	Susan Salokannel	Treed retention polygon summary in the description [forest cover label & objective] of the SU polygon & the objectives for each reserve & treed retention patch - clearly described on the Objective, Strategy, Soil and System tabs according to the codes listed. --Use multi-layer stocking standards for dispersed retention of commercial species and identify the objective. --Define objective & forest cover (ground observation or VRI) for retention/reserve & populate WTRA VRI Label survey. --The polygons linked spatially in the survey.
1.18	March 11, 2011	Susan Salokannel Ian Niblett	Various Updates related to the New Map Window and LRM upgrades throughout the guide.
1.19	January 2012	Susan Salokannel	New Harvest Unit ID code for Steep Slope (STPSLP) Page 27 Scheduling of Grass Seeding (Page 38-42) and monitoring in areas of invasive plants.
1.20	November 2016	Susan Salokannel	Stream classification label changed (page 23). Basal area included in WTRA label (pages 11 & 44). The Legal Report Status screen for WTRA VRI Label (page 46). Survey Units Tab manual data entry required: pages (47 & 54). Grass Seeding: Steps 1 & 3 are to be performed by engineering staff only. Steps 2 & 4 are performed by Site Plan writers (pages 49 to 52). Template pdf printed out (pages 85 – 90).
1.21	November 2019	Andy Fraser	Update to LRM 3.3
1.22	April 2021	Andy Fraser	Fixed broken web links, update T.o.C
1.23	April 2022	Andy Fraser	Update Riparian (Step 12) as per provincial communique 2022-02
1.24	April 2023	Andy Fraser	Update R&S to match newly implemented Planning Module

Significant Changes are highlighted in the text of the guide in yellow.



Site Plan

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Site Plan

Purpose: The development and data entry of a new Site Plan LRM

The Site Plan is the foundation for all business development within Trimble Land Resource Manager™ and supports all ESF submissions for RESULTS. The set of user-defined site plan reports within Trimble Land Resource Manager™ includes:

- Site Plan;
- Support Document;
- Harvest Plan;
- Silviculture Plan and;
- Amendments and Updates.

Intended Audience:

Operations Staff/Contractors involved with site plan development

Prerequisite:

Have an understanding of digitizing/linking spatial polygons within LRM™;
Permissions have been granted to enter and edit Site Plan screens in LRM™;
Permissions have been granted to generate user-defined site plan reports in LRM™;
Understanding of Navigator Tree;
Understanding of the Map Window;
Block boundary has been developed, loaded and linked in LRM™;
Block internal layers have been developed and loaded in LRM™;
Standards ID's must be approved and loaded into the LRM maintenance tables;
Licence Window data is entered by TSN staff; and
Appraisal Module data [at least Region and District] entered by TSN staff.

Reference:

<https://gwww.nrs.gov.bc.ca/flnrord/book/bcts-training/land-resource-manager-lrm>

Best Practice: Stuart-Nechako GIS staff will load all spatial data relevant to the Site Plan.

All polygons and line work for **Multiphase Contracts** are to be loaded by TSN GIS staff.

Contractors are to link tabular data to spatial data.

It is important that spatial and tabular data is entered in the order represented in this user guide.

Site Plan data entry must be accurate and complete to minimize errors.



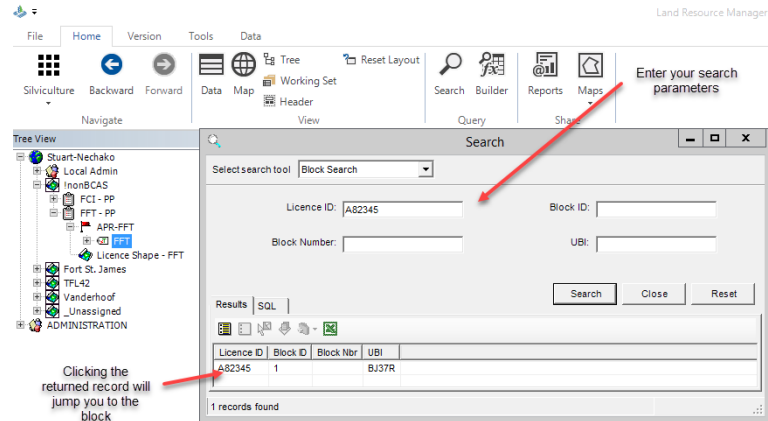


Site Plan

Step 1: Navigator Search

Open Navigator Tree and right 'click' on Stuart Nechako to open the Navigator Search tool.

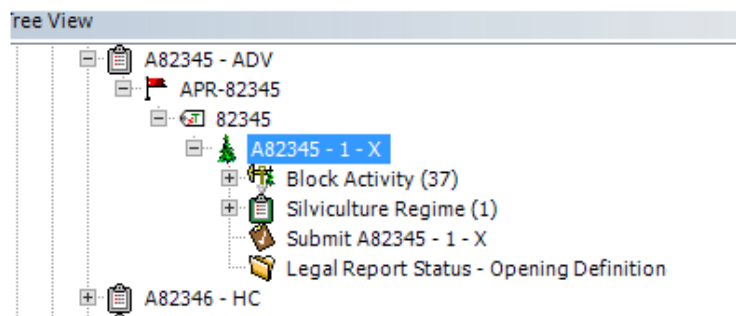
Enter the appropriate TSL and 'Click' 'OK'.



Double click the block level to open the following fields have been completed.

the Block module [red tree] and confirm the

Note: The Permit drop-down list in the Permit tab of the Appraisal Detail window is auto-populated with the Permit IDs or the auto-generated Appraisal IDs (i.e. when a cut permit does not exist), associated with the selected Licence.



Much of this information represents the header information that will be printed on each page of the Site Plan. Coloured fields must be filled with data. **Step 5 contains detailed information for this screen.**

Site Plan

Tabular View

Cutblock

A82345 - 1 - X (1 of 1)

Cutblock Identification

Business Area: Stuart-Nechako Block ID: 1 Block Nbr: [] MODIFIEDBY: []

File ID: [] Photo: [] UBI: BJ37R Generate UBI? No MODIFIEDON: []

Green-Up: [] Green Up date of Adjacent Block: [] Info source: [] ROW: No

Cutblock Location

Operating Area: Chuchi Supply Block: C Opening Number: 093N019 CREATEDBY: []

Sub-Operating Area: [] Prov Frst Conflict: Within Mapsheet ID: 093N019 CREATEDON: []

Opening ID: [] Longitude: [] Landscape Unit: Carp

Latitude: [] Inventory Zone: [] Elevation Min: []

P.M.P. Op. Zone: [] Gross Area(ha): 6.0 Elevation Max: []

Location: []

Details Site Index Calculator FDP Comment Amendments Tasks Transport Valuation Stocking Status Cutblock Shape

Miscellaneous

Plan Status	Funding Code	Site Plan Exempt?	Category	State	Traverse Method	Block Identifier for Silviculture Reporting	Comm
Approved	BC Timber Sales	Yes	FTSBF - SBF Enterpr	X	GPS	Block Id	Decked web

Scroll to right to view all fields

Land Resource Manager - LRMBCS 3.3/P39 [PROD]

File Home Version Tools Data

Silviculture Backward Forward Data Map Working Set Header View Query Share

Tree View

- A82345 - ADV
- A82346 - HC
- A82347 - RG
- A82348 - Q
- A82349 - RG
- APR-82349
- 82349
 - A82349 - 1 - RG
 - Block Activity (23)
 - Silviculture Activity (6)
 - Silviculture Regime (1)
 - Submit A82349 - 1 - RG
 - Site Plan - 1
 - Standard Unit (5)
 - SU 1 - PROD - 86.7
 - Ecology Unit (1)
 - SU Stocking Layer (1)
 - Standard Unit Shape - SU 1
 - SU 2 - PROD - 30.3
 - SU NPBR - NPNCBR - .5
 - SU PAS - NPPERMACC - 3.2
 - SU WTP - WTP - 34.9
 - Riparian Areas (6)
 - Silviculture System (2)
 - Site Plan Comments (13)
 - Stocking Status (6)
 - Legal Report Status - Opening Definition
 - Legal Report Status - Disturbance (3)
 - Legal Report Status - Silviculture Activity (6)
 - Legal Report Status - Milestone (2)

Header Panel

Not spatial Stuart-Nechako\Fort St. James\A82345

NAR 116.9925

Tabular View

Standard Unit

Standard Unit	Type	SU N
1	Productive	No
2	Productive	No
NPBR	NPFOR-NPBR-NCBR	No
PAS	NP Permanent Acces	No
WTP	Wildlife Tree Patch	No

Working Set

Standard UnitShape

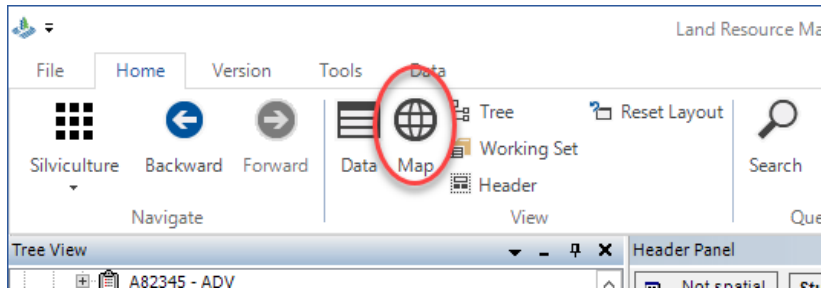
SU Stocking Stocking Standard Selection Plans

On the main ribbon Have the "Silviculture" module selected. Expanding the menu will lead down to the Site Plan and SU features.



Site Plan

Step 2: SpatialView Window



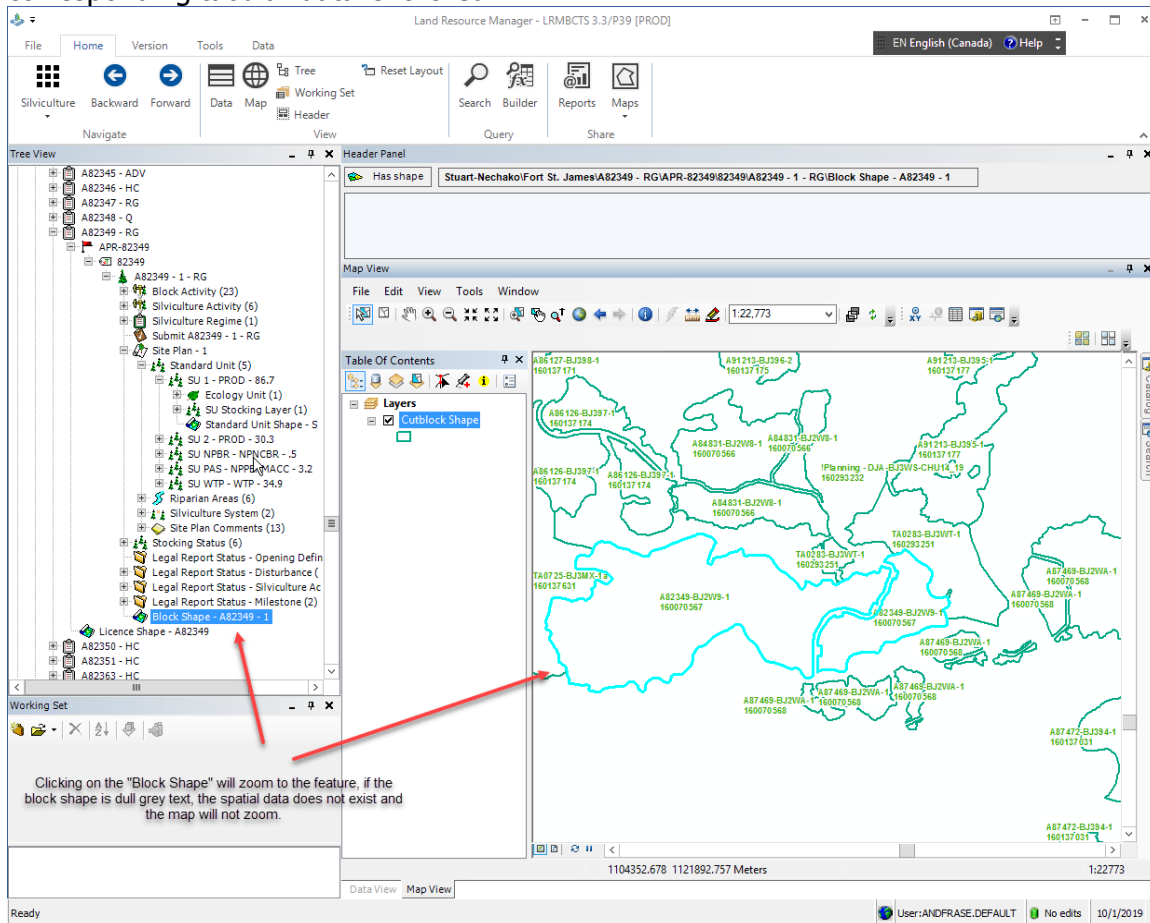
Detailed instructions for the Spatial View window are found at:

<https://www.nrs.gov.bc.ca/flnrord/book/bcts-training/land-resource-manager-lrm> and on the Uduutu website. <http://lms.udutu.ca/LMSPortal/Account/Logon?ReturnUrl=%2flmsPortal%2f>

Site Plan

Check that the block boundary is linked and valid.

Linked layers are identified in the lower righthand corner of the Map Window whenever the corresponding tabular data is 'clicked'.



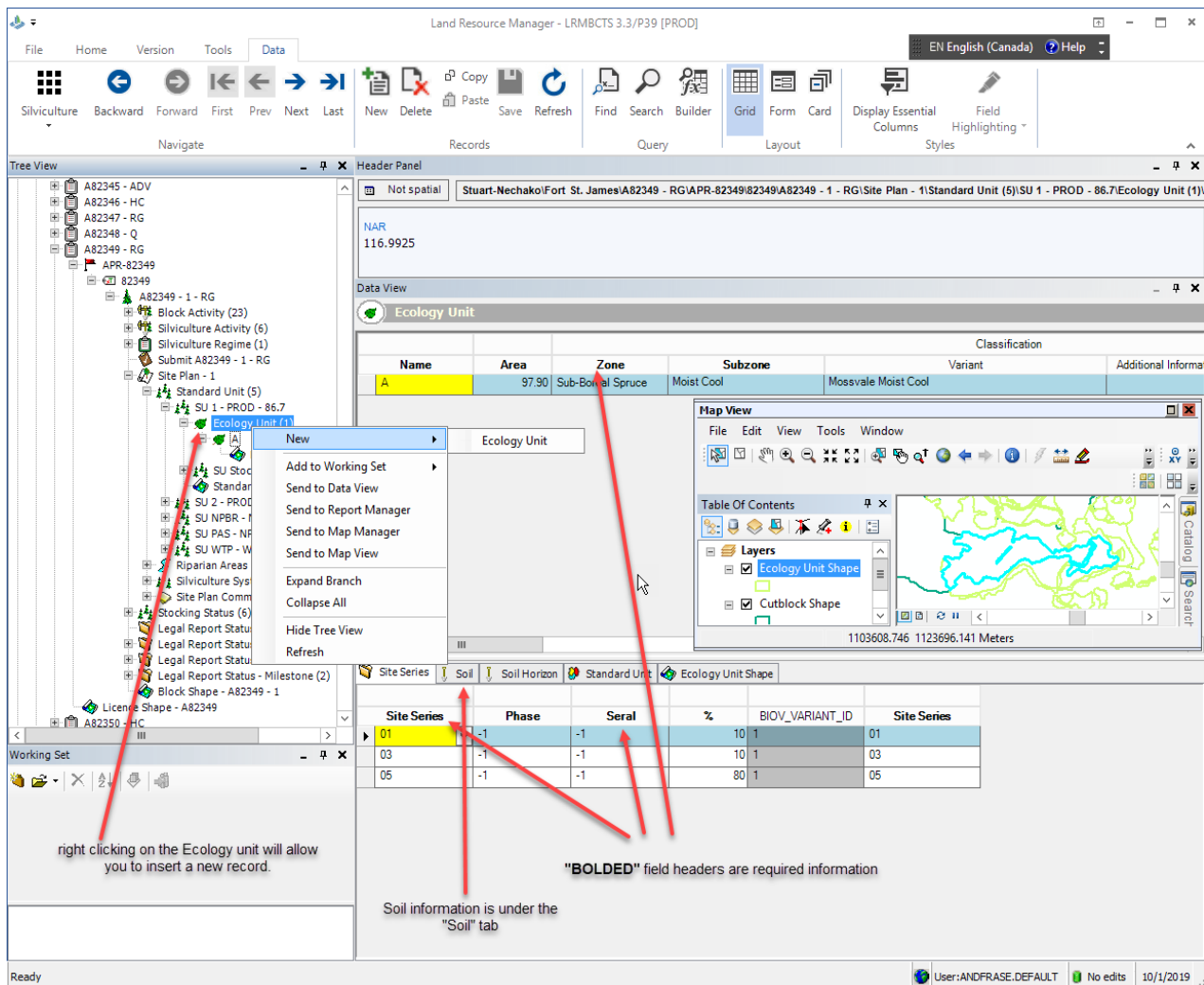
Best Business:



If the block is not linked or valid please consult TSN GIS Staff before proceeding to any further development.

Site Plan

Step 3: Ecology Data – Ecology Window



right clicking on the Ecology unit will allow you to insert a new record.

"BOLDED" field headers are required information

Soil information is under the "Soil" tab

Site Series	Phase	Serial	%	BIOV_VARIANT_ID	Site Series
01	-1	-1	10	1	01
03	-1	-1	10	1	03
05	-1	-1	80	1	05

- Enter data in both **Detail** and **Soil** tabs for each EU.

Naming Convention – TSO naming convention: ECO Layers are alphabetic – A, B, C, etc.

All WTP/WTRA & SU area shall be eco classified and included in the appropriate unit. Any questions please consult GIS Administrator.

OTHER Eco units:

This would apply when no field Eco units are typed. E.g. NP or SWAMP

Please enter any other non-productive EU's

Site Plan

with a corresponding Name ID as the EU.
In the case of a Swamp the name will be
SWAMP [The **Details** tab need only show info in the Additional
Area field.] The BEC will be blank.

▪ Save

Soils information, collected in the field, should be entered here in LRM. A blank field can be appropriate.

Site Series	Soil	Soil Horizon	Standard Unit	Ecology Unit Shape			
EU	Organic Layer	Humus Form	Acid Test	Acid pH	Acid Depth(cm)	Comments	Seep
A		Mor					No

Site Series	Soil	Soil Horizon	Standard Unit	Ecology Unit Shape			
Horizon Modifier	Thickness(cm)	Texture	Coarse Frag(%)	Gravel<7.5(%)	Cobble<25cm(%)	Stone>25cm(%)	Display Order
B	30	Sandy Loam	30	90	10		1

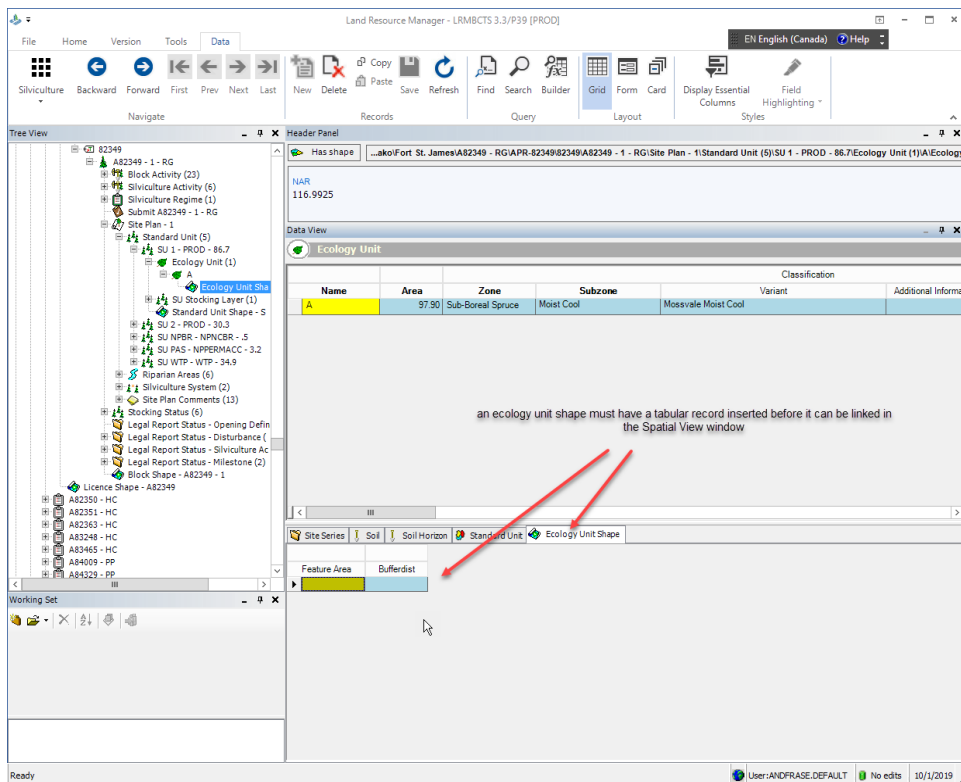
Note: Tabular link between the SUs and EUs is mandatory in order to link the Stocking Standard ID to the SU. This is done with an 'insertion' in the Ecology Summary on the SU screen or a "populate". [Described in step 8] Multiple EUs can exist in a SU.

Step 4: Eco Unit Polygons in Map Window:

Spatial data is to be "linked" in the Spatial View window by the user or GIS staff.

TSN staff\contractors digitizing/linking their own SP development blocks are to refer to
<https://www.nrs.gov.bc.ca/flnrord/book/bcts-training/land-resource-manager-lrm> and on the
Uduntu website. <https://lms.udutu.ca/LMSPortal/Account/Logon?ReturnUrl=%2flmsPortal%2f>

Site Plan



Land Resource Manager - LRMBCTS 3.3/P39 [PROD]

File Home Version Tools Data

Silviculture Backward Forward First Prev Next Last

Records New Delete Copy Paste Save Refresh Find Search Builder Grid Form Card Display Essential Columns Styles Field Highlighting

Tree View

Header Panel

Has shape

116.9925

Data View

Name	Area	Zone	Subzone	Classification	Variant	Additional Info
A	97.90	Sub-Boreal Spruce	Moist Cool	Mossvale Moist Cool		

an ecology unit shape must have a tabular record inserted before it can be linked in the Spatial View window

Ecology Unit Shape

Feature Area Bufferdist

Ready

User:ANDFRASE.DEFAULT No edits 10/1/2019

Site Plan

Step 5: Block Window –Details Tab

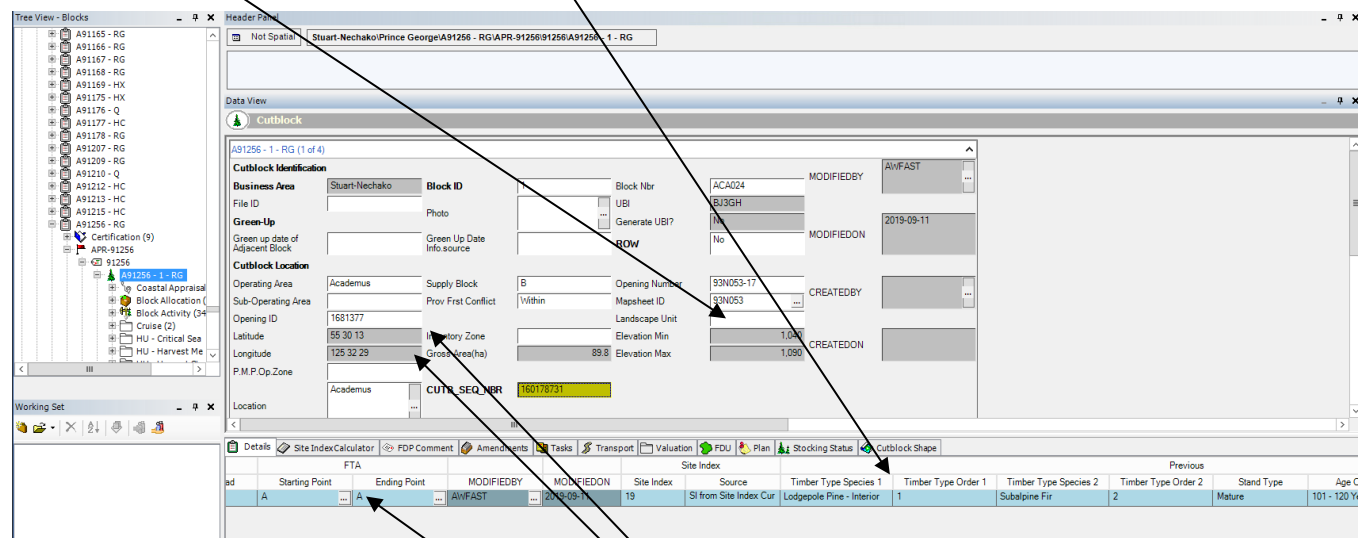
Select the Block Details tab. Complete all fields as shown.

Best Business



The **Previous Stand** information will be reported to **RESULTS**. It should be the best available information and updated following the cruise. Site index information is at: <https://www2.gov.bc.ca/gov/content/industry/forestry/managing-our-forest-resources/forest-inventory/growth-and-yield-modelling/site-index-tools-sitetools>

Landscape unit is not currently used, so please leave it blank.



There are 2 places to enter co-ordinates on this tab. **The Cut Block Location** marks the centre of the block or centre of the block cluster. The **Traverse** [closed] is any point on the block boundary or boundary of the cluster. For the **traverse information**, it is not important to have Lat vs. Long first. It is important to have the Starting Point = the Ending Point. So, use "copy/paste" to put the starting information into the ending field.

The number of **attachments** is to be kept to a minimum. **The file size should not exceed 2MB**. The attachments are referenced to their location on a server. The location should be accessible to users and NOT subject to deletion.

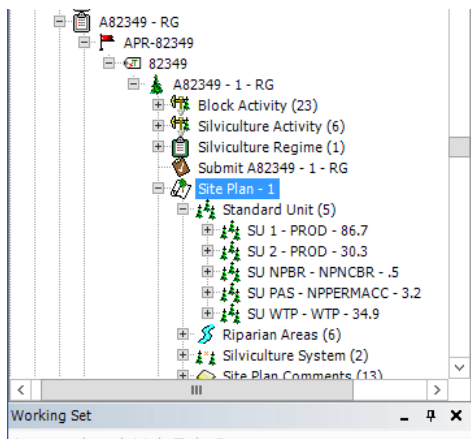
"Casacade Silv Activities off Logging Started" should be marked as "Yes".

Site Plan

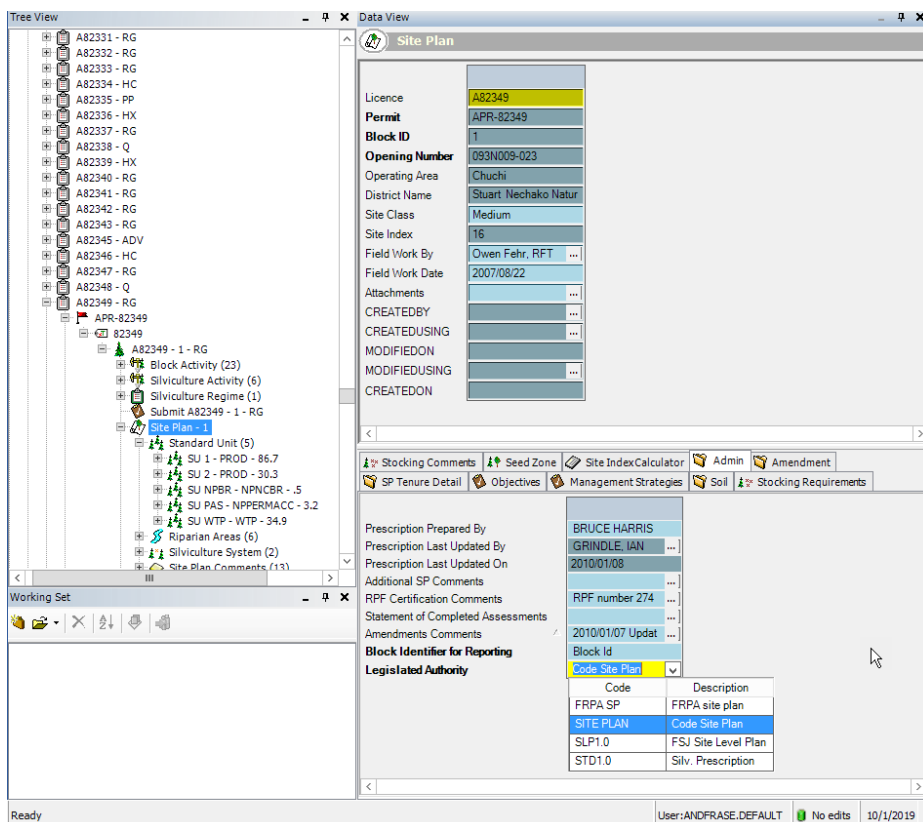
Date	Traverse Method	Block Identifier for Silviculture Reporting	Comments	Cascade Silv Activities off Logging Started	Access
	GPS	Block Id	...	Yes	Travel 7.

Site Plan

Step 6: Standards Unit (SU) Data



Under the block tree, click the Site Plan icon to open the Site Plan.



Before proceeding:

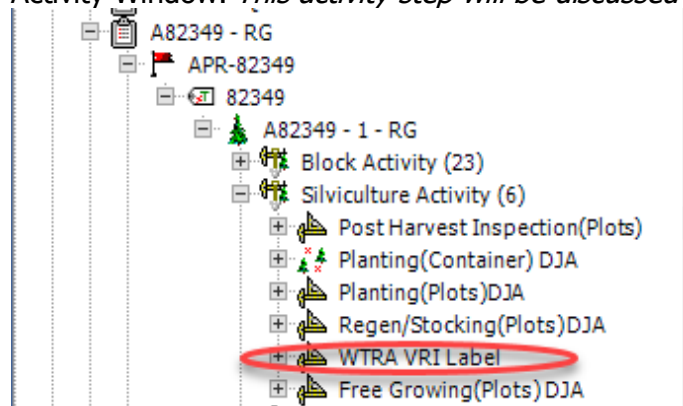
Choose the appropriate Legislated Authority to establish the related tabs for the Site Plan. For blocks NOT entered in the Planning Module, a Code site plan is recommended to facilitate manual entry of Results and Strategies. Details for retention objectives, riparian reserves, terrain stability, and timber management are found on the:

- Objectives;
- Management Strategies
- Soil

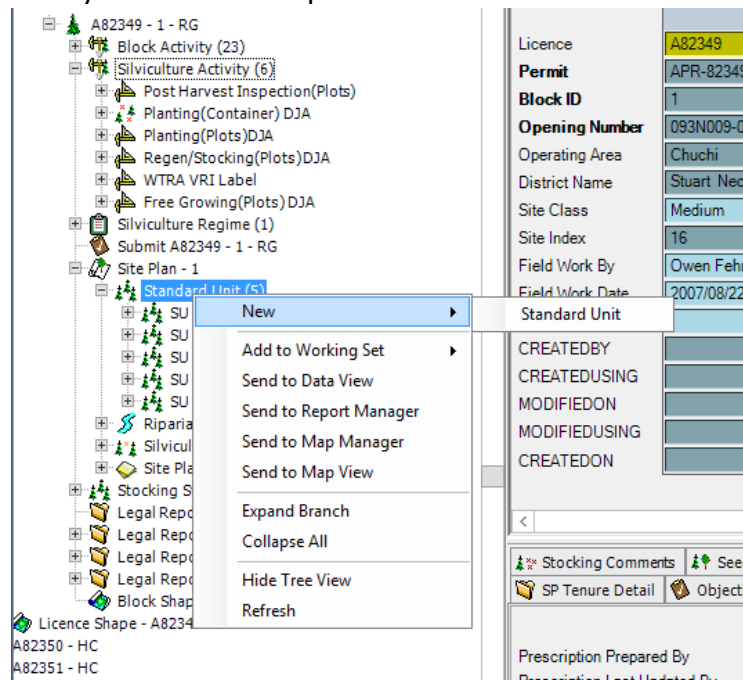
“SU’s” are to be created in LRM and will include all units within a block that contribute to the gross block area (i.e.: productive SU’s, WTRA’s/ reserves, NP, swamp, roads, etc)

Site Plan

WTRA: State objectives, **basal area** and crown closure of reserves at the time the SP was developed. [Detailed information for WTRA is entered in an activity entry on the Silviculture Activity Window. *This activity step will be discussed later in this guide book.*]



Forest cover inventory [VRI] information may be used for WTRA/reserve data if better data is not readily available. One place to find this information is in the Map Window on the Layer: TSN



WTRA VRI Discovery. Always use the best available data which may be your personal observation.

To Create a Standards Unit (SU):
Right click on the "Standard Unit", hover on "New" and click "Standard Unit".

Site Plan

Land Resource Manager - LRMBCTS 3.3/P39 [PROD]

File Home Version Tools Data

Silviculture Backward Forward First Prev Next Last New Delete Copy Paste Save Refresh Find Search Builder Grid Form Card Display Essential Columns

Navigate Records Query Layout Styles

Tree View

Standard Unit

Standard Unit	Type	SU NCBR Digitized	SU Area (ha)	SU Regen Obligation	NCBR Area (ha)	Site Index	Description	Other Critical Site Conditions	Silviculture System	NPN at Non-Map(ha)	MODIFIEDON	MODIFIEDBY	CREATEDON	CREATEDBY
1	Productive	No	19.09	Yes	.0	16	SBS mc3 04	The soils in this SU a	CLEAR		2019/10/03	ANDFRASE		
2	Productive	No	4.31	Yes	.0	16	SBS mc3 01	The soils in this SU a	CLEAR		2019/10/03	ANDFRASE		
PAS	NP Permanent Acces	No	5	No	.0				CCRES					

Alternatively, selecting the the main "Standard Unit" level in the nav tree and clicking "New" will effect the same

Site Plan

Data View

 **Standard Unit**

Standard Unit	1
Type	Productive
SUNCBR Digitized	No
SU Area (ha)	86.69
SU Regen Obligation	Yes
NCBR Area (ha)	.0
Site Index	16
Description	SBS mk1 05 ...
Other Critical Site Conditions	For terrain stabilit ...
Silvicultural System	CCRES
NPN at Non-Map(ha)	
MODIFIEDON	
MODIFIEDBY	...
CREATEDON	
CREATEDBY	...

Open the SU “Card”

- Bolded fields are mandatory. Greyed fields populate from other areas
 - The **Description text box** contains information to describe the SU polygon. The first few characters of the description will appear on the SP Tenure Tab in the Description in the Area Summary section.
 - For **WTRA**, the text box must summarize the **Forest Cover Inventory Label or better information** and **objectives** and any other relevant information for each **Treed Retention polygon**.
 - **RRZ** is no longer a valid SU name
- See Step 24 A WTRA VRI Survey Label section for list of Objective Codes.

Milestones  Silvicultural System  Standard Unit Shape 

SU Stocking  Stocking Standard Selection  Planned Soil Disturbance  Actual Soil Disturbance 

Seq ID	160010825
Stocking Standard ID	1004106
Description	DJA FSP SBSmk ...
Other Performance Standards	For the purpose o ...
Original Stocking Objective	
Regen Delay (Yrs)	7
Regen Delay Date	2016/09/30
Free Grow Early (Yrs)	
Free Grow Early Date	
Free Grow Late (Yrs)	20
Free Grow Late Date	2029/09/30

User:ANDFRASE.DEFAULT  No edits 10/1/2019

The lower tabs contain much information that is required

Site Plan

View Data View

Standard Unit

Standard Unit	1	NPBR
Type	Productive	Non-Productive Swa
SU NCBR Digitized	No	No
SU Area (ha)	28.78	.3
SU Regen Obligation	Yes	No
NCBr Area (ha)	.0	.0
Site Index	18	
Description	SU 1 is comprised of Non-Productive wet,	
Other Critical Site Conditions	The consistent prese	
Silvicultural System	CCRES	
NPN at Non-Map(ha)		
MODIFIEDON		
MODIFIEDBY		
CREATEDUSING		
CREATEDON		
CREATEDBY		

king Set

SU Stocking Stocking Standard Selection Planned Soil Disturbance

Soil Compaction	Very High
Surface Soil Erosion	Moderate
Soil Displacement	Low
Max Bank Hgt (m)	
Avg. Bank Hgt (m)	
Equipment	...
Unfav. Subsoil Type	Compacted Materials
Sediment Delivery Risk	
Depth Unfav. Subsoil - Min. (cm)	30
Depth Unfav. Subsoil - Max. (cm)	75
Max Allow. Disturbance (%)	5
Soil Disturb. Temp Exc. By TAS (%)	0.0

In conjunction with the soils information entered in the Ecology there are 2 places within the Standard Units where information is required. Inside the "Planned Soil Disturbance" risk factors allowable disturbances are entered.

Site Plan

ree View Data View

Site Plan

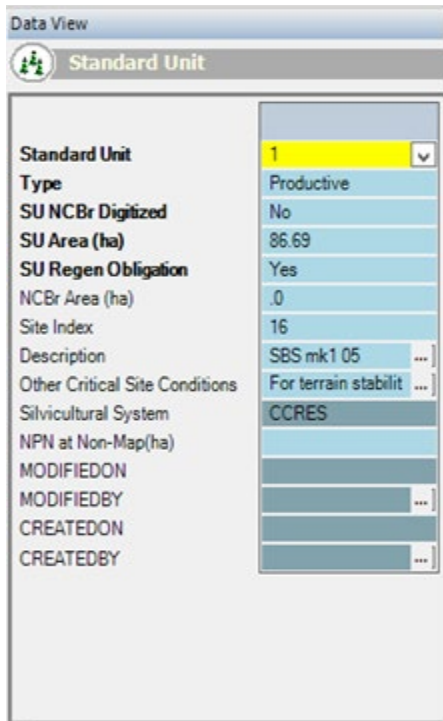
Licence: A93021
 Permit: APR-93021
 Block ID: 3
 Opening Number: <<Not Assigned>>
 Operating Area: Rainbow
 District Name: Stuart Nechako Natu
 Site Class:
 Site Index: 18
 Field Work By: ...
 Field Work Date:
 Attachments: ...
 CREATEDBY: ...
 CREATEDUSING: ...
 MODIFIEDON: ...
 MODIFIEDUSING: ...

Amendment
 SP Tenure Detail Objectives Management Strategies **Soil** Stocking Rec

Max Roadside Disturbance-Pct(%) 25.0
 Soil Conservation Comments The design of in-b ...
 Max Time to Complete Rehab (Harv Complete)(days) 1.0
 Mgmt Strategy for TAS-Temporary Access Comments There are no TAS ...
 Slope Information-Slope Instability Indicators There were no sig ...
 Slope Information-Required
Terrain Stability Field Assessment Completed No
 Max Prop. of Total Area for Perm Access-Area(ha) 1.3
 Max Prop. of Total Area for Perm Access-Pct (%) 3.7

On the "Soil" tab of the main Site Plan Screen Roadside disturbance and TAS info is entered.

Site Plan



The **SU Window – Summary Tab**

Label the 'Productive' **SU**. Select "**Productive**" from the "**Type**" drop-down list and add description/comments. Then '**Save**'.

Site Index is entered on this screen and will be weighted by area automatically for all SUs. Site Index: 21
SI will then automatically populate the Tenure Screen and Block Details screen.

Identify SU 'Regen Obligation' by entering "Yes/No"

The **Description text box** contains information to describe the SU polygon. The first few characters of the description will appear on the SP Tenure Tab in the Description in the Area Summary section. Text boxes (identified with the three dots) allow the user to enter important comments. Such as "Other Critical Site Conditions".

For **WTRA**, the text box must summarize the **Forest Cover Inventory Label or better information** and **objectives** and any other relevant information for each **Treed Retention polygon**.

See Step 24 A WTRA VRI Survey Label section for list of Objective Codes.

Best Business:



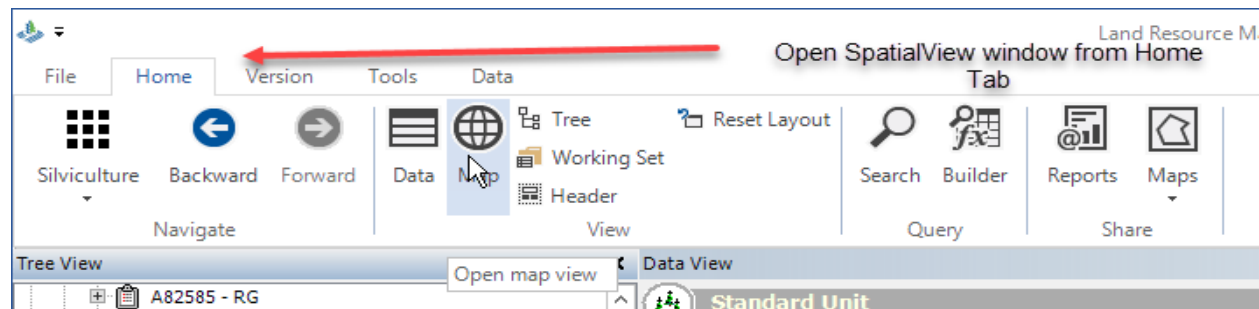
The smallest productive polygon is 1 hectare.

The smallest non-productive polygon is 0.2 ha.

If a smaller polygon is required, please discuss with contract coordinator.

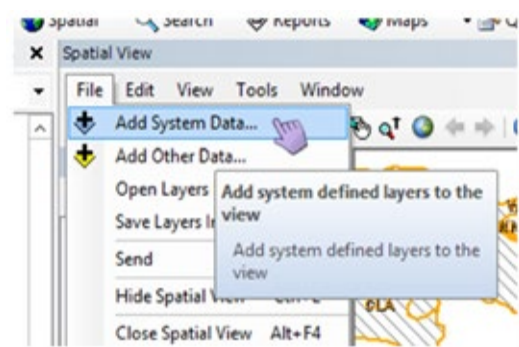
Step 7: Link Each SU tabular record to the spatial information.

Tip: All linking must be initiated from a tabular record, with the map window open.

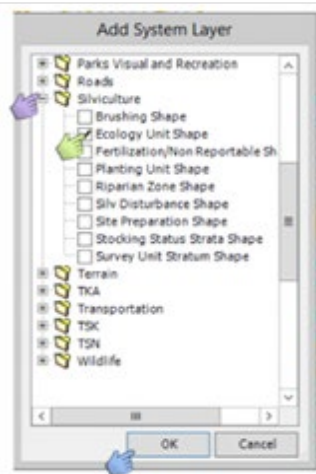


Site Plan

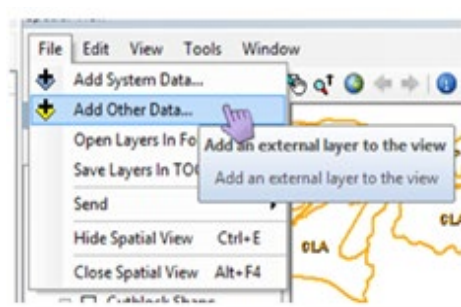
Under File, click Add System Data...



Click the + beside the Silviculture folder to expand it, select Ecology Unit Shape and click OK

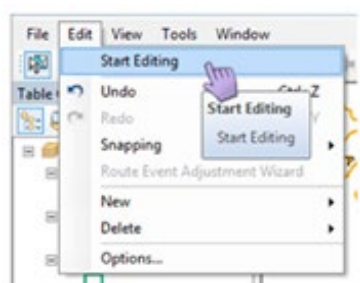
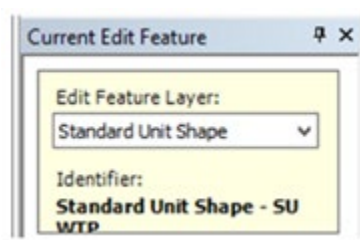


Under File, click Add Other Data...

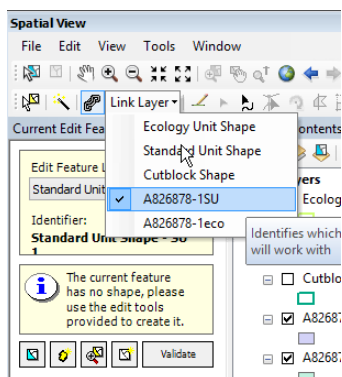


Navigate to the shape file that contains the Standard Units you want to link and add the shape file
Under Edit, click **Start Editing**

Site Plan



A Current Edit Feature window will open, review the information to confirm that the Edit Feature Layer is set to **Standard Unit Shape**. Select from the dropdown menu if it is not correct.



Confirm that the shape file you want to link (copy into LRM) is highlighted in the Tree View Select the **Link Layer** drop down menu and select the layer that was added



Use your mouse to highlight the SU you want to link and left click on it. The selection will become cross-hatched

Site Plan

The above spatial process is fundamentally the same for all spatial features within LRM. TSN staff\contractors digitizing/linking their own SP development blocks are to refer to <https://www.nrs.gov.bc.ca/flnrord/book/bcts-training/land-resource-manager-lrm> and on the Uduntu website. <https://lms.udutu.ca/LMSPortal/Account/Logon?ReturnUrl=%2flmsPortal%2f> for GIS Basics

Complete this process for each productive and non-productive unit including PAS if roads are “on-block.”

Note: Forest Service Roads (FSR) and Road Permit (RP) roads are excluded from the block.

Best Business:



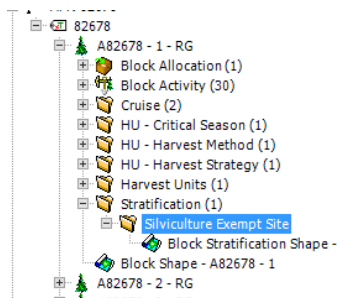
Please review spatial building with GIS Staff prior to commencing.

NOTE: Create the Polygon(s) around roads first followed by smallest SUs and build from these polygons until the full block is built for SU's. **Standards Unit NAMING CONVENTION:** TSO standards are from Multiphase Contract.

All PRODUCTIVE Standards Units are: NUMERIC – 1, 2, 3,...etc.

Standard Unit Naming Conventions		
SU Name	Type	Description
#	PRODUCTIVE	Productive (NAR)
PAS	NPPERMACC	Non-Productive Permanent Access Structures
ROCK	NPROCK	Non-Productive Rock
SWAMP	NPSWAMP	Non-Productive Swamp
WATER	NPWATER	Non-Productive Water
RANGE	NPOTHER	Non-Productive Other
NPOTHER	NPOTHER	Non-Productive Other
NPNAT	NPNAT	Natural Non-Productive (not already covered)
NPUNN	NPUNN	Unnatural Non-Productive (e.g. gravel pit)
NPBR	NPNCBR	Non-Productive Brush
WTRA	WTRA	Wildlife Tree Retention Area
RRZ	RESRV	Reserve
IMM	NPIMM	Non-Productive Immature
*Productive SUs will be 1.0 ha or greater, unless there are site specific circumstances that warrant smaller. NP and other SUs will be 0.2 ha or greater. # - denotes a numerical value. RRZ label will supersede WTP label in the event of overlap.		

Site Plan



Step 8: Stratification Tab [in the Block Module]

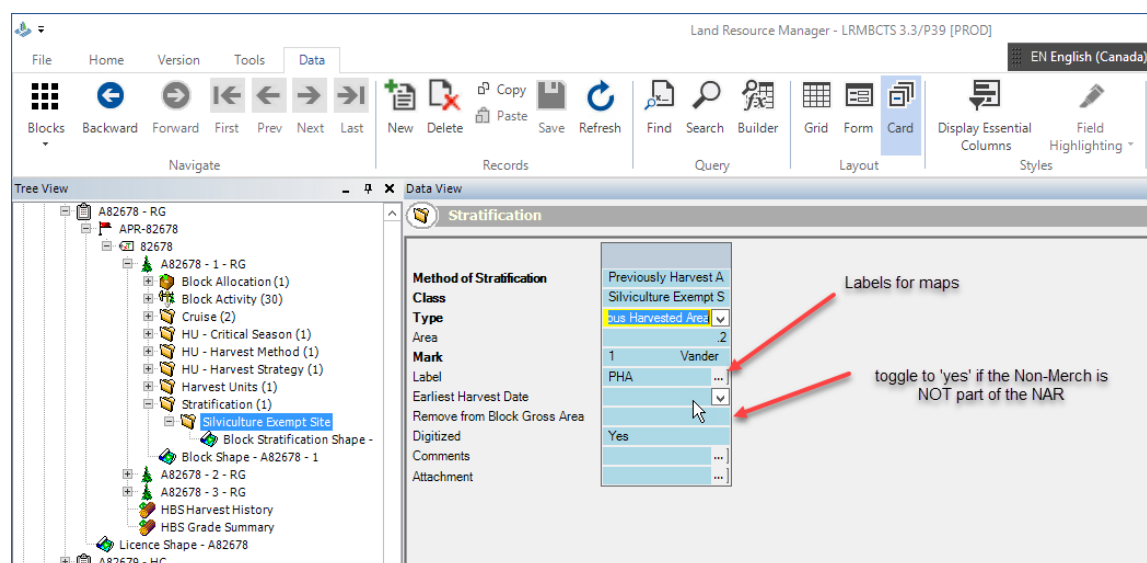
Insert and label all stratified areas using the drop-down list choices. The order of choice (Method, Class, Type) determines the choices.

(Reminder: Double click on the block icon in the Navigator Tree to open the block window)

Go to/open the Stratification Tab.

Naming convention for Non-Merch Types:

The Stratification Tab in the Block Window is used to provide labels for Non-Merch Area & Retention Patches/features within Standards Units, Wildlife Tree Patches [WTP 1, WTP 2...], Steep Slope, Forest & Non Forest Land, previously harvested areas [PHA], and deciduous patches [DEP]. Features that are not part of the NAR must have "Remove from Block Gross Area" checked off.



Labels for maps

toggle to 'yes' if the Non-Merch is NOT part of the NAR

WTRA Comments may include information related to the retention objective and the Forest Cover Labels.

Features that are not part of the NAR must have "Remove from Block Gross Area" checked off. The feature is retained within the Block.



Site Plan

Best Business



If the actual tenure is known for the PHA then the tenure should be included in the label. For example: **PHA A12345-1** or **PHA A12345-BBR**

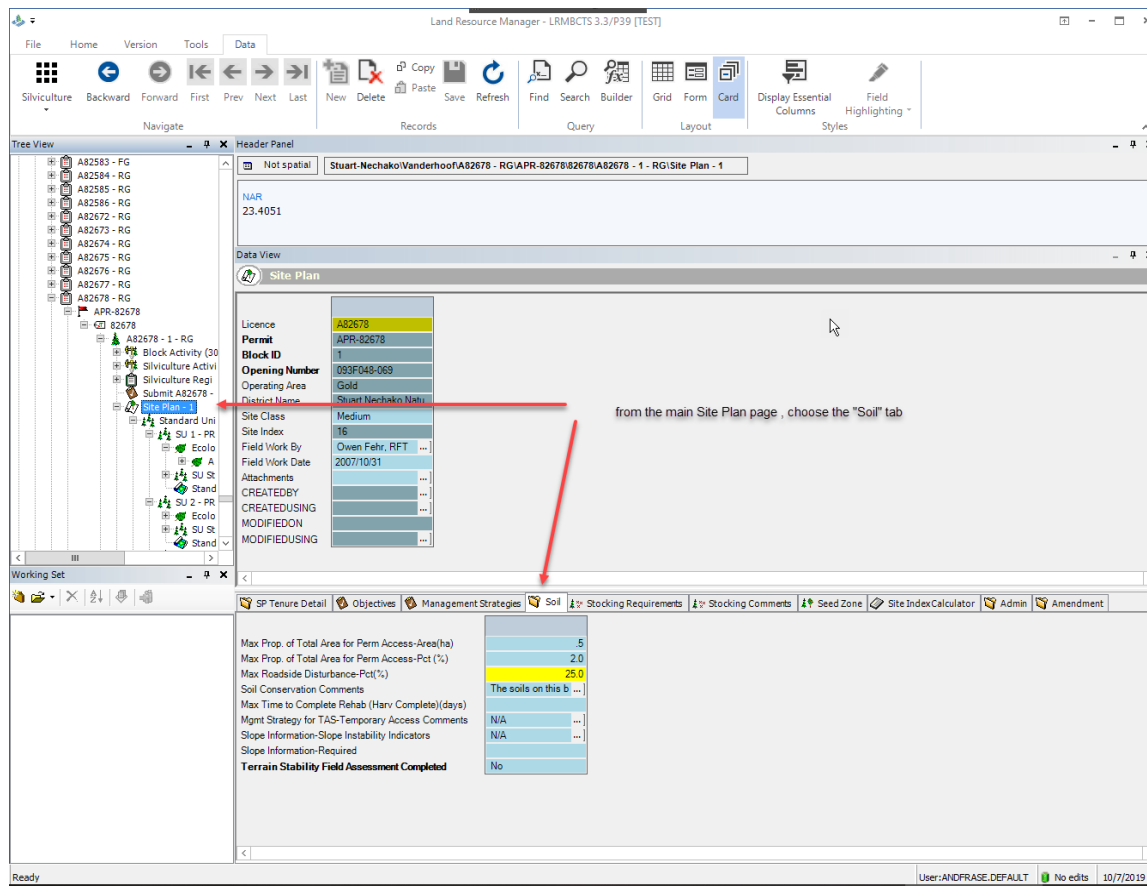
LINK Stratification Areas to spatial data:

TSN staff\contractors digitizing/linking their own SP development blocks are to refer to <https://gww.nrs.gov.bc.ca/flnrord/book/bcts-training/land-resource-manager-lrm> and on the Uduutu website. <https://lms.udutu.ca/LMSPortal/Account/Logon?ReturnUrl=%2flmsPortal%2f> for GIS Basics

Step 9: SU Window– Soils Tab

The Soils information is now split between the main Site Plan page, the main SU page and the ecology page, the latter housing the actual field data, while the two formers housing the prescription standards and limits.

Site Plan



Land Resource Manager - LRMBCTS 3.3/P39 (TEST)

File Home Version Tools Data

Silviculture Backward Forward First Prev Next Last New Delete Copy Paste Save Refresh Find Search Builder Grid Form Card Display Essential Columns Field Highlighting

Tree View Header Panel

Not spatial Stuart-Nechako/Vanderhoof/A82678 - RG/APR-82678/82678/A82678 - 1 - RG/Site Plan - 1

NAR 23.4051

Data View Site Plan

Licence A82678
Permit APR-82678
Block ID 1
Opening Number 093F048-069
Operating Area Gold
District Name Stuart-Nechako-Nehalem
Site Class Medium
Site Index 16
Field Work By Owen Fehr, RFT
Field Work Date 2007/10/31
Attachments
CREATEDBY
CREATEDUSING
MODIFIEDON
MODIFIEDUSING

from the main Site Plan page, choose the "Soil" tab

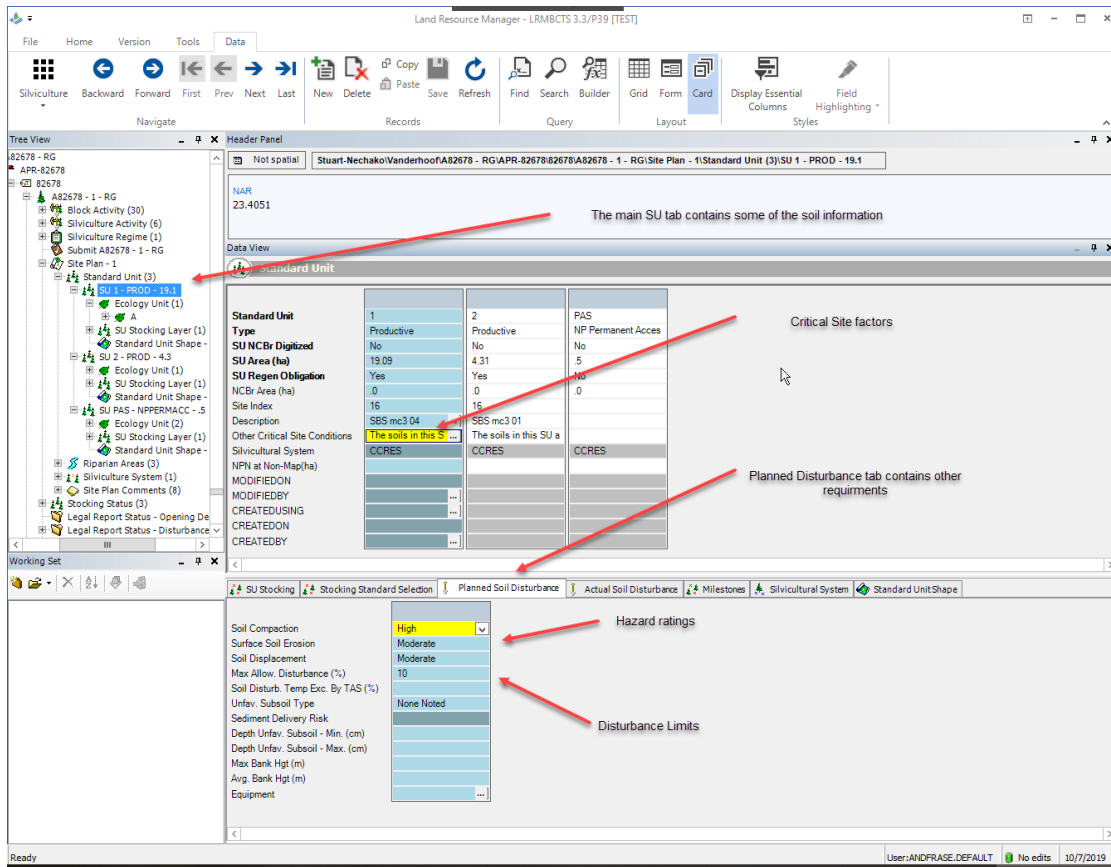
Working Set

SP Tenure Detail Objectives Management Strategies Soil Stocking Requirements Stocking Comments Seed Zone Site Index Calculator Admin Amendment

Max Prop. of Total Area for Perm Access-Area(ha) 5
Max Prop. of Total Area for Perm Access-Pct(%) 2.0
Max Roadside Disturbance-Pct(%) 25.0
Soil Conservation Comments The soils on this b...
Max Time to Complete Rehab (Harv Complete)(days) N/A
Mgmt Strategy for TAS-Temporary Access Comments N/A
Slope Information-Slope Instability Indicators N/A
Slope Information-Required No
Terrain Stability Field Assessment Completed No

Ready User:ANDFRASE.DEFAULT No edits 10/7/2019

Site Plan



The main SU tab contains some of the soil information

Critical Site factors

Planned Disturbance tab contains other requirements

Hazard ratings

Disturbance Limits

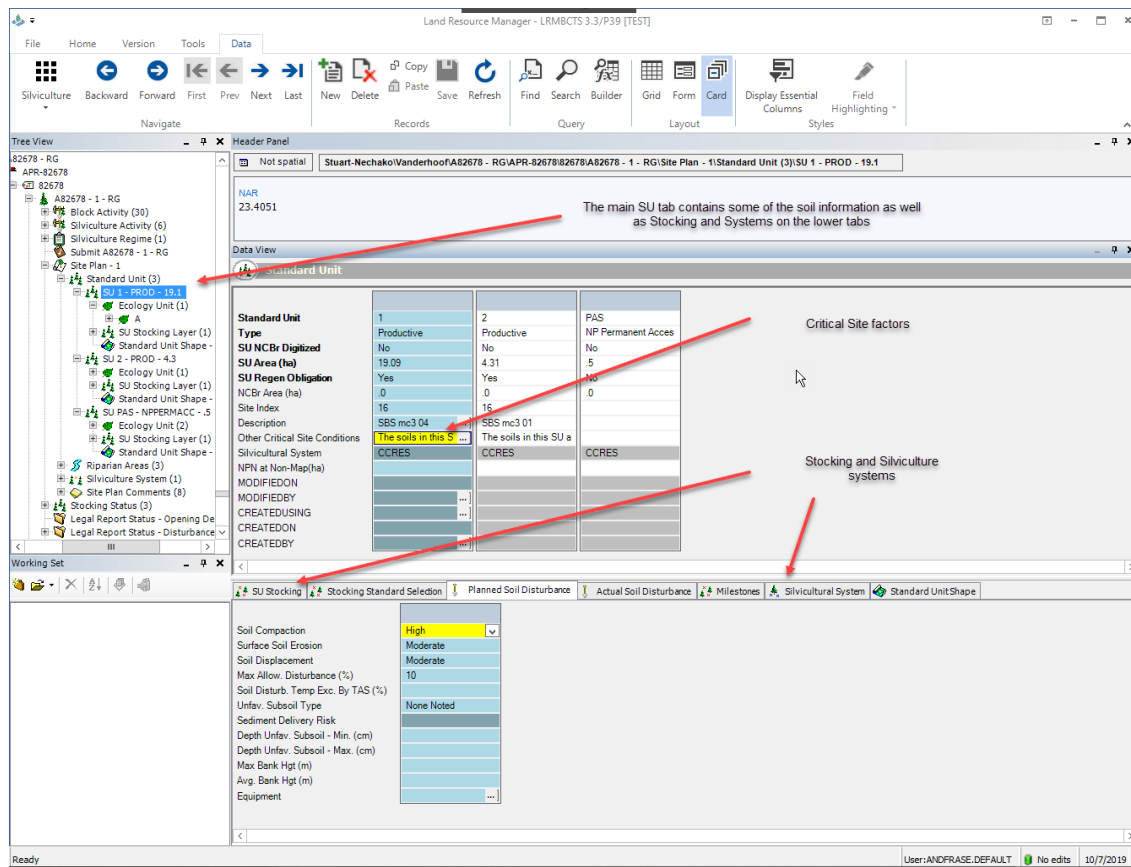
Other information was entered in the ecology section during **STEP 3**

Repeat data entry for all SU's and Ecologies. (Including WTP's road, reserves, etc) Close all SU windows and go back to the SP window.

The **Silvicultural System** and **Stocking** tabs will be revisited after filling in some sections of the **SP** window. **The Silviculture system tab must be populated for the Harvest Plan to fill in.**

****NOTE:** **Stocking** tab will only be visible for SU with 'Types' identified as 'Productive' on the Summary Tab.

Site Plan



The main SU tab contains some of the soil information as well as Stocking and Systems on the lower tabs

Critical Site factors

Stocking and Silviculture systems

Working Set

SU Stocking

Stocking Standard Selection

Planned Soil Disturbance

Actual Soil Disturbance

Milestones

Silvicultural System

Standard Unit Shape

Soil Compaction: High

Surface Soil Erosion: Moderate

Soil Displacement: Moderate

Max Allow. Disturbance (%): 10

Soil Disturb. Temp Exc. By TAS (%): None Noted

Unfav. Subsoil Type: None Noted

Sediment Delivery Risk: None Noted

Depth Unfav. Subsoil - Min. (cm): None Noted

Depth Unfav. Subsoil - Max. (cm): None Noted

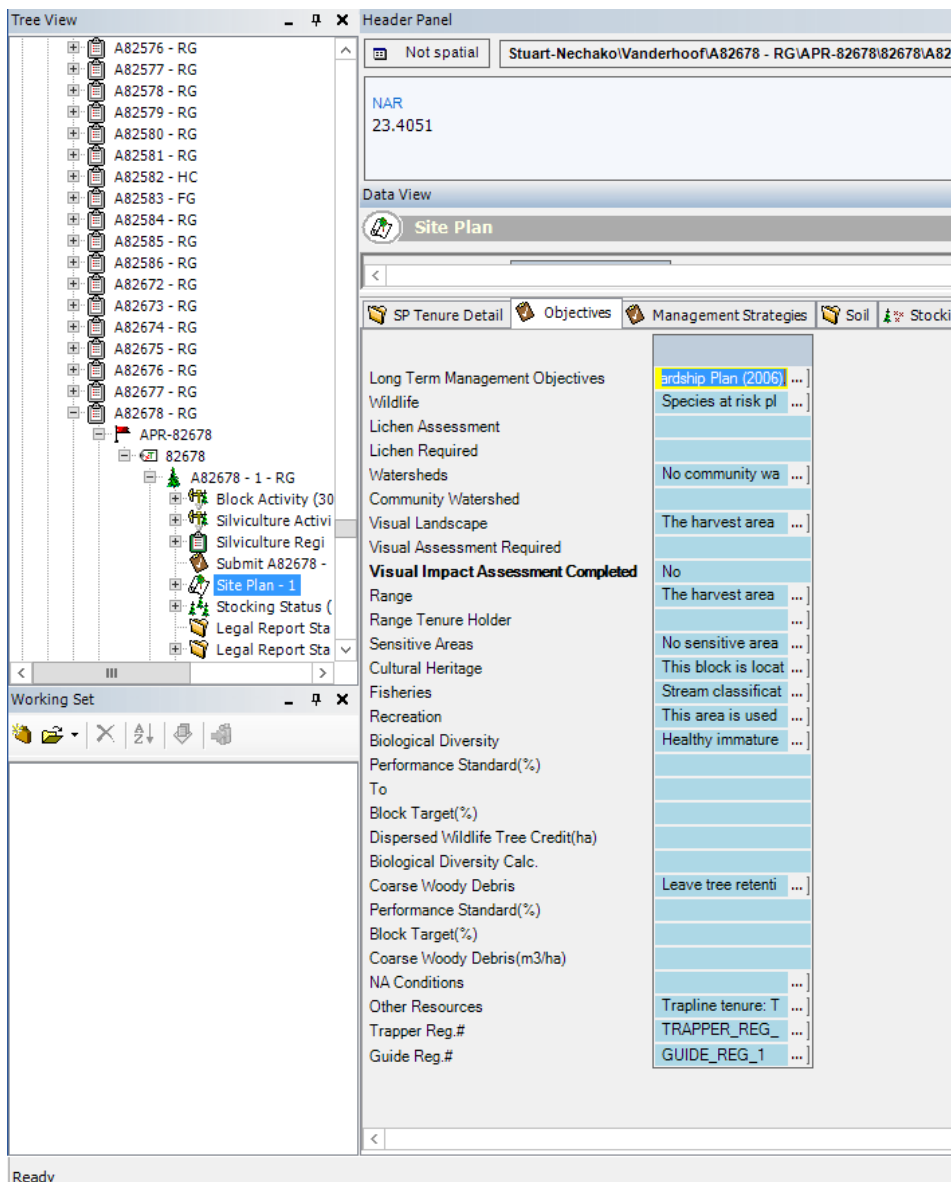
Max Bank Hgt (m): None Noted

Avg. Bank Hgt (m): None Noted

Equipment: None Noted

Site Plan

Step 10: Objectives Tab



The screenshot shows the 'Objectives' tab in the Land Resource Manager software. The interface includes a 'Tree View' on the left with a list of resources (A82576 - RG to A82678 - RG) and a 'Working Set' at the bottom. The main area displays a list of objectives and their associated values. The 'Objectives' tab is selected, showing a list of objectives and their corresponding values in a table.

Objective	Value
Long Term Management Objectives	Stewardship Plan (2006) ...
Wildlife	Species at risk pl ...
Lichen Assessment	
Lichen Required	
Watersheds	No community wa ...
Community Watershed	
Visual Landscape	The harvest area ...
Visual Assessment Required	
Visual Impact Assessment Completed	No
Range	The harvest area ...
Range Tenure Holder	
Sensitive Areas	No sensitive area ...
Cultural Heritage	This block is locat ...
Fisheries	Stream classificat ...
Recreation	This area is used ...
Biological Diversity	Healthy immature ...
Performance Standard(%)	
To	
Block Target(%)	
Dispersed Wildlife Tree Credit(ha)	
Biological Diversity Calc.	
Coarse Woody Debris	Leave tree retenti ...
Performance Standard(%)	
Block Target(%)	
Coarse Woody Debris(m3/ha)	
NA Conditions	
Other Resources	Trapline tenure: T ...
Trapper Reg.#	TRAPPER_REG_ ...
Guide Reg.#	GUIDE_REG_1 ...

Complete **Long-term Management Objectives** text box

Best Practice

The statement in the 'Longterm Management Objectives:' box is *Field Office specific* because each office has its own Forest Stewardship Plan and Sustained Forest Management Plan. Some Plans may not even require a statement in this text box. The information for the statement will be updated annually as new site plans are written and provided to Multiphase Contractors by their BCTS contract co-ordinators.

Complete the **Post Harvest Site Conditions** text box for each selected resource. The objective for any associated Retention is to be identified and included in the comments. See Step 24 A for list of Objective Codes.

Information for any selection must also be entered using the **Comments tab**. Please refer to Step 20.

Site Plan

Reserve Objective Codes

Reserve Code	Description
BIO	Biodiversity
BOT	Botanical Forest Products
CHR	Cultural Heritage Resource
CWD	Coarse Woody Debris
FH	Forest health
FUE	Fuel Management
MSM	MSMA Treated Area
OTH	Other
REC	Recreation
RMA	Riparian Management Area
SEN	Sensitive Site
TER	Terrain Stability
TIM	Timber management
VIS	Visual
WTR	Wildlife Tree Retention Goals

What is the difference between Reserve objective codes of "WTR" -Wildlife Tree Retention Goals and "BIO" - Biodiversity?

The wildlife tree retention (WTR) objective code is used to indicate that a forested area is reserved from harvest for at least one rotation for the purposes of wildlife trees, unless exempted under FPPR 91. This WTR objective code is also used as a tool to track whether licensees are meeting the practices requirement for wildlife tree retention identified under FPPR 66 or an alternative Result or Strategy approved as part of an FSP. This code is also associated with other practices requirements such as FRPP 67 – Restriction on harvesting. Actual WTR areas are registered in the LRDW and indicate a legal encumbrance for subsequent tenure applications. FRPA general bulletin number 8 provides some details and interim guidance on this.

FRPA general bulletin number 8:

<https://www.for.gov.bc.ca/ftp/TSN/external/!publish/Web/frpa-general-no-8-wildlife-tree-retention-area-dec-2011.pdf>

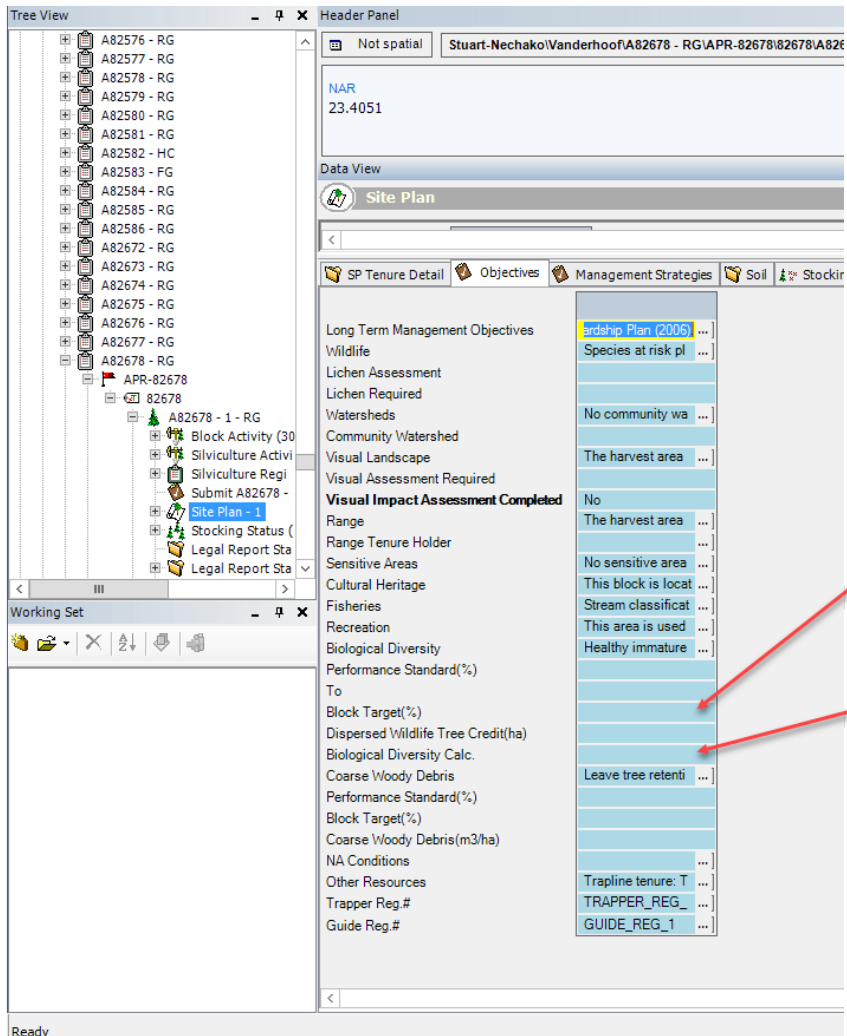
The biodiversity objective code (BIO), on the other hand, is used to identify that a forested area is set aside for general biodiversity reasons. This code is not associated with any practices requirements or FSP result or strategy. It is not used to determine whether a licensee has met an obligation. **This code does not have the same legal context as the WTR objective code.** Areas of forest reserved under the biodiversity objective code are not necessarily restricted from future harvest as are areas of forest set aside under the WTR objective code.

Site Plan

The Supporting Information table that shows "Stand Level Retention Commitments (Chief Foresters Guidance Dec 12) with % WTP retention requirements is populate from the Objectives Biodiversity section.

GROUP WTRA / WTP AND SITE DEG. CALCULATION (to be retained on the first block of the Permit only)						
Block	Gross Cutblock Area	WTRA / WTP	%	BEC	Perm Access	%
1	23.9	0.0	0.0	SBS/mc/3	0.5	2.1
2	26.6	4.4	16.6	SBS/mc/3	0.8	3.0
3	72.0	22.7	31.5	SBS/mc/3	2.0	2.8
Total # of Blocks: 3	122.5	27.1	22.1		3.3	2.7

this value populates from the block target in the objectives tab and the Biological Diversity calc from the same tab toggled to 'YES'



Tree View

Header Panel

Not spatial | Stuart-Nechako\Vanderhoof\A82678 - RG\APR-82678\82678\A82678

NAR
23.4051

Data View

Site Plan

SP Tenure Detail | Objectives | Management Strategies | Soil | Stocking

Long Term Management Objectives

Wildlife

Lichen Assessment

Lichen Required

Watersheds

Community Watershed

Visual Landscape

Visual Assessment Required

Visual Impact Assessment Completed

Range

Range Tenure Holder

Sensitive Areas

Cultural Heritage

Fisheries

Recreation

Biological Diversity

Performance Standard(%)

To

Block Target(%)

Dispersed Wildlife Tree Credit(ha)

Biological Diversity Calc.

Coarse Woody Debris

Performance Standard(%)

Block Target(%)

Coarse Woody Debris(m3/ha)

NA Conditions

Other Resources

Trapper Reg.#

Guide Reg.#

Partnership Plan (2006) ...

Species at risk pl ...

No community wa ...

The harvest area ...

No

The harvest area ...

No sensitive area ...

This block is locat ...

Stream classificat ...

This area is used ...

Healthy immature ...

Leave tree retenti ...

Trapline tenure: T ...

TRAPPER_REG_ ...

GUIDE_REG_1 ...

this field populates the % column in the site deg table on the site plan

toggle to 'Yes' to co-ordinate multiple block TSL's

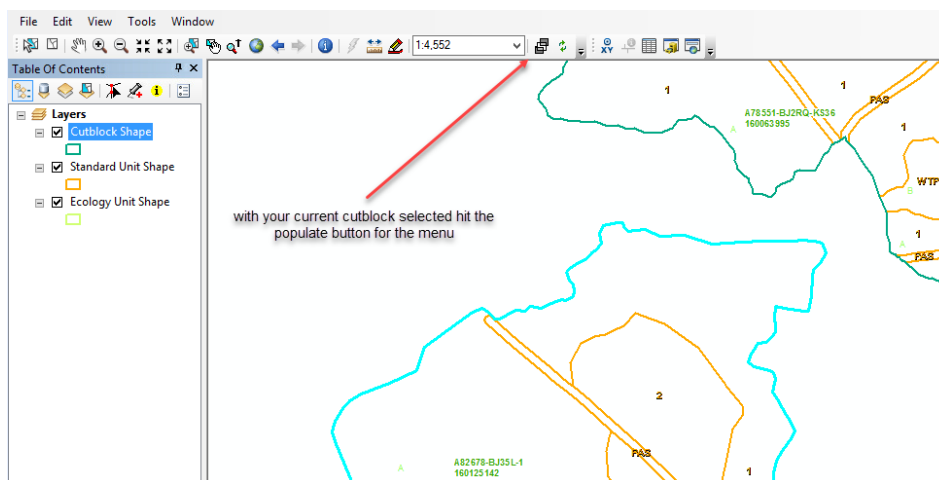
Site Plan

The various comment boxes translate into the User-Defined Report like this:

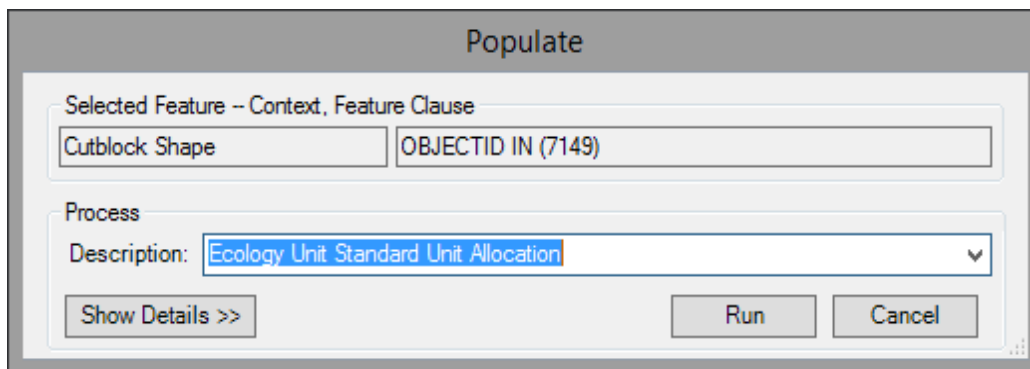
The three small wet pockets of UY site series will be avoided with machinery mitigating any soil disturbance concerns.

RESERVE / RETENTION INFORMATION		
WTRA / WTP (INSIDE OR ATTRIBUTED TO THE BLOCK)		
I.D.#	Area	Description
WTRA	8.7	<p>The total retention area net of NP swamp meets the requirements of the FPPR.</p> <p>WTRA #s 1 and 2 have been located to remove black spruce from the harvest area while incorporating immature and mature portions of pine leading stands.</p> <p>A windthrow hazard assessment has been done for the retention areas. The windthrow hazard is Moderate for the WTRA 2, Moderate for the southwest facing edge of WTRA 1, and Low for the north facing edge of WTRA 1. As windthrow is a naturally occurring event, some windthrow is expected within the retained areas. Wind thrown trees create habitat niches and contribute to coarse woody debris in the short term and over time through natural succession processes.</p>

Step 11: Ecology Tab



Best Business:
Once Ecology Units and Standards Units have been digitized/linked, 'click' the **Populate** button [with the map window open] to open the populate menu.

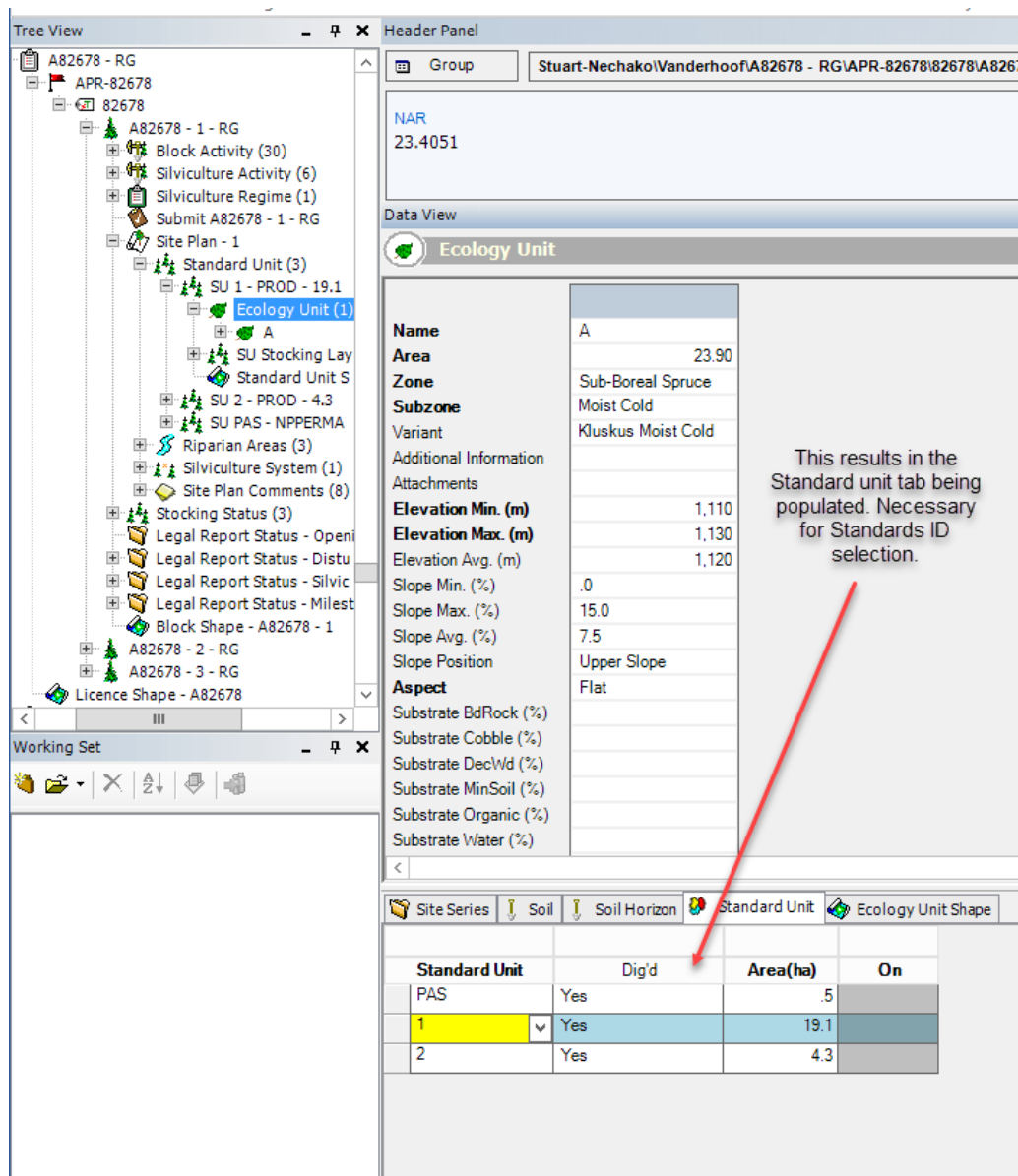


Site Plan

Ecology information is broken down by SU area, so even if an SU contains portions of many EU's, the area calculation is automatically handled by LRM.

OR for older Silviculture Prescriptions with EU's not digitized, **Insert Record** and manually enter SU's, assigning each to a corresponding Ecology Unit. Area will have to be entered manually.

Ecology Units must be linked to Standards Units in order to ensure a successful Opening Definition submission to **RESULTS**.



Ecology Unit

Name	A
Area	23.90
Zone	Sub-Boreal Spruce
Subzone	Moist Cold
Variant	Kluskus Moist Cold
Additional Information	
Attachments	
Elevation Min. (m)	1,110
Elevation Max. (m)	1,130
Elevation Avg. (m)	1,120
Slope Min. (%)	.0
Slope Max. (%)	15.0
Slope Avg. (%)	7.5
Slope Position	Upper Slope
Aspect	Flat
Substrate BdRock (%)	
Substrate Cobble (%)	
Substrate Dec/Wd (%)	
Substrate MinSoil (%)	
Substrate Organic (%)	
Substrate Water (%)	

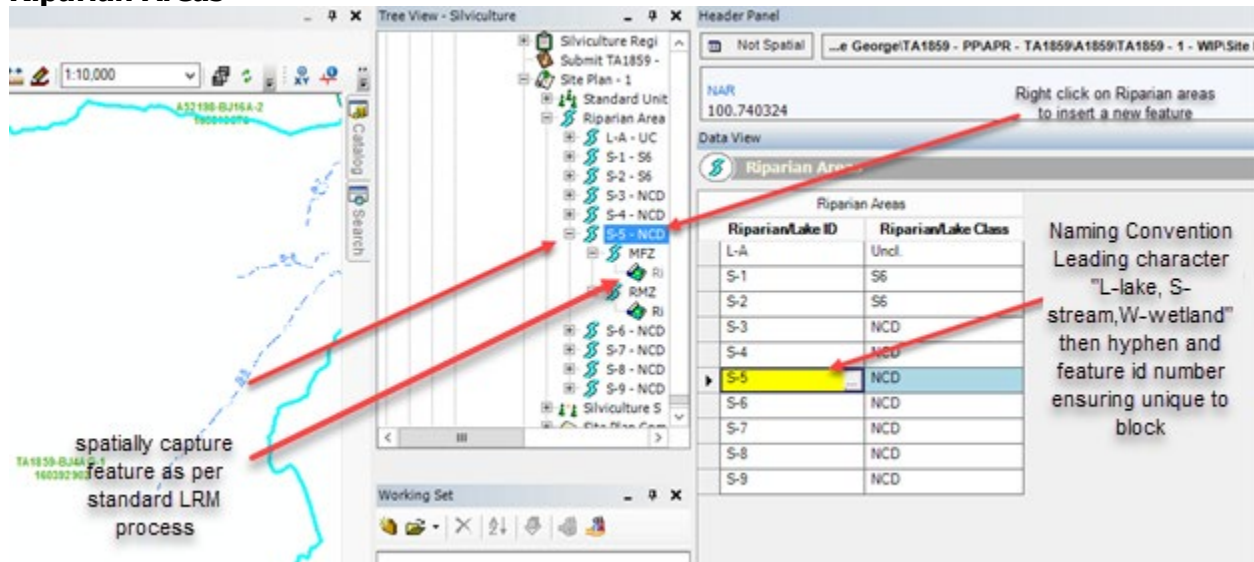
This results in the Standard unit tab being populated. Necessary for Standards ID selection.

Standard Unit	Dig'd	Area(ha)	On
PAS	Yes	.5	
1	Yes	19.1	
2	Yes	4.3	

Site Plan

Step 12: Riparian Data and Management Strategies - Strategy Tab

Riparian Areas



spatially capture feature as per standard LRM process

Right click on Riparian areas to insert a new feature

Naming Convention
Leading character
"L-lake, S-stream, W-wetland"
then hyphen and feature id number
ensuring unique to block

Riparian/Lake ID	Riparian/Lake Class
L-A	Uncl.
S-1	S6
S-2	S6
S-3	NCD
S-4	NCD
S-5	NCD
S-6	NCD
S-7	NCD
S-8	NCD
S-9	NCD

Note: Riparian features that influence the NAR are created using. **Insert** a new record and enter Riparian/Lake ID which includes the TSL # and then select Rip/LK Class from the drop-down list.

Site Plan

Data View

 **Riparian Zone**

Zone	Riparian Mgmt Zo	Riparian Reserve Zo
Width (m)	20.0	30.0
Area		
Min BA(m2/ha)		
Max BA(m2/ha)		
Min Dens.(stem/ha)		
Max Dens.(stem/ha)		
Min BA(%)		
Max BA(%)		
Harv Indx	No	No
SU Xref		
Management Comments	A windthrow asse ...	A windthrow assess

Riparian Zone Details

Insert a new record and select **Zone** from drop-down list

Enter **comments** and **objectives** specific to that Riparian Zone if appropriate. 'Double-click' in the text box to get a larger window. Fill in width and Basal Area [if appropriate] information.

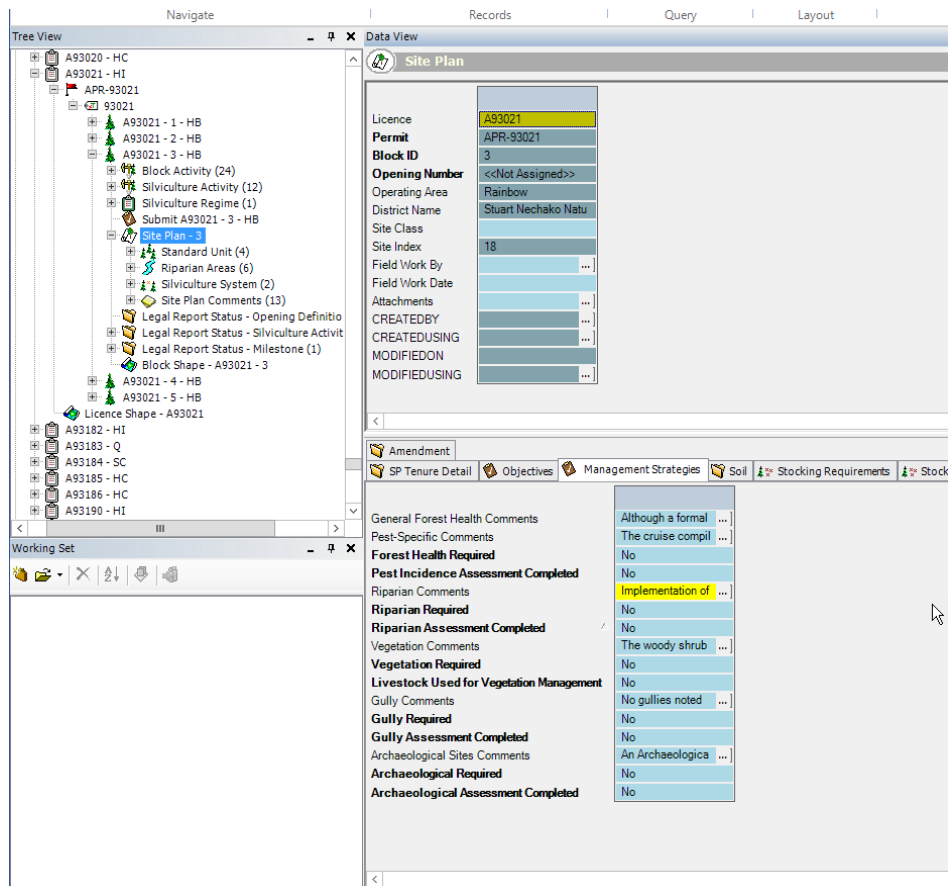
For RRZ and RMZ that fall within an SU the Riparian field in the Management Strategies window must be completed and can be referenced by SU using the SU XRef. RMZ's and RRZ's that occur within a WTRA do not need to be captured spatially.

This applies also to mandatory riparian assessments.

Note: Riparian Reserve/Management Zones netted out of the NAR will NOT be managed as a distinct Standard Unit and must be included within a "reserve type "SU e.g., WTRA. If riparian area is outside of block boundary the **SU XRef** box does not need to be completed.

Site Plan

Management Strategies (Assessments)



The screenshot shows the 'Site Plan' tab in the Land Resource Manager software. The 'Tree View' on the left lists various management units and activities, including 'A93020 - HC', 'A93021 - HI', 'APR-93021', '93021', 'A93021 - 1 - HB', 'A93021 - 2 - HB', 'A93021 - 3 - HB', 'Block Activity (24)', 'Silviculture Activity (12)', 'Silviculture Regime (1)', 'Submit A93021 - 3 - HB', 'Site Plan - 3', 'Standard Unit (4)', 'Riparian Areas (6)', 'Silviculture System (2)', 'Site Plan Comments (13)', 'Legal Report Status - Opening Definition', 'Legal Report Status - Silviculture Activity', 'Legal Report Status - Milestone (1)', 'Block Shape - A93021 - 3', 'A93021 - 4 - HB', 'A93021 - 5 - HB', 'Licence Shape - A93021', 'A93182 - HI', 'A93183 - Q', 'A93184 - SC', 'A93185 - HC', 'A93186 - HC', and 'A93190 - HI'. The 'Data View' on the right contains a form for entering site information, including fields for 'Licence', 'Permit', 'Block ID', 'Opening Number', 'Operating Area', 'District Name', 'Site Class', 'Site Index', 'Field Work By', 'Field Work Date', 'Attachments', 'CREATEDBY', 'CREATEDUSING', 'MODIFIEDON', and 'MODIFIEDUSING'. Below the form is a 'Working Set' section with various assessment checkboxes and dropdown menus, including 'General Forest Health Comments', 'Pest-Specific Comments', 'Forest Health Required', 'Pest Incidence Assessment Completed', 'Riparian Comments', 'Riparian Required', 'Riparian Assessment Completed', 'Vegetation Comments', 'Vegetation Required', 'Livestock Used for Vegetation Management', 'Gully Comments', 'Gully Required', 'Gully Assessment Completed', 'Archaeological Sites Comments', 'Archaeological Required', and 'Archaeological Assessment Completed'.

'Click' on the strategy tab to open the text box for data entry. If an assessment is not required, then a comment to that effect in the text box will also print out in the User-Defined Report "Support Document".

For **Forest Health** enter comments in the 'General Forest Health' and 'Pests Specific Comments' field. 'Check' box for Pest Incidence Assessment completed, if appropriate.

For **Vegetation**, comment on the expected post-harvest brush competition. If expected species are

suitable for livestock and wildlife interactions are appropriate, then 'check' box to indicate 'Livestock Used for Vegetation Management.'

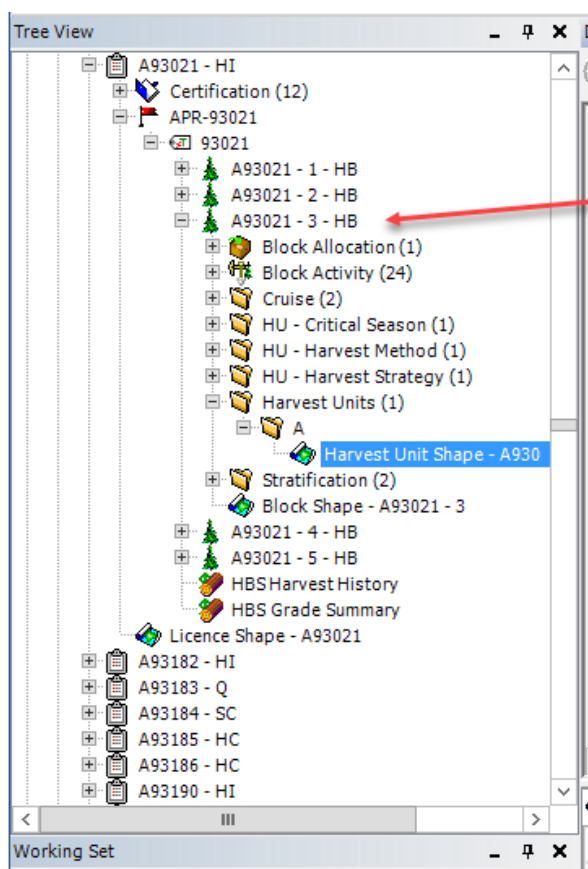
For **Riparian** management summarize relevant features within or adjacent to the TSL Block. 'Check' box for Assessment completed, if appropriate.

For **Gully** strategy enter comments in the **Gully** window. 'Check' box for Assessment completed, if appropriate.

For Archaeological Impact enter comments in the **Archaeological Sites** window. 'Check' box for Archaeological Assessment completed, if appropriate.

Site Plan

Step 13: Harvest Strategy Tabular Data– Harvest Unit Inventory Tab – (Block Window)



right clicking on the "tree" in the Blocks module will allow you to insert "Harvest Unit components, Critical Season, Method and Strategy.

This is the place to identify specific features *on maps* related to: Harvest Strategy [standard practice; riparian; machine free zones; steep slope zones; wildlife management zones; Visual Quality Objective zones etc.], Critical Season [season of harvest]; Harvest Method [different methods of harvest] and, eventually, even areas with specific silviculture strategies once that layer is available in the map layers.

Data View			
HU - Critical Season			
Critical Season	Total Merch Area (ha)	Total Merch Volume (m3)	Dig Ind
Winter only	29.9	0	Yes

Site Plan

Data View

HU - Harvest Method

Harvest Method	Total Merch Area (ha)	Total Merch Volume (m3)	Dig Ind
Ground	29.9		Yes

Harvest Strategy information will appear on the SP map and the Harvest Plan map as appropriate. The labels are identified and linked in the **BLOCK** Window on the **Harvest Unit Inventory** Tab.

Data View

HU - Harvest Strategy

Harvest Strategy	Total Merch Area (ha)	Total Merch Volume (m3)	Dig Ind
Standard Practice	29.9		Yes

Code	Description
CHRZ	Cultural Heritage Resource Zone
DW	Decked Wood
MFZ	Machine Free Zone
NONE	<<None>>
RMZ	Riparian Management Zone
SC	Special Conditions
SMA	Special Management Area
STD	Standard Practice

Choose the Harvest Strategy Layer. Add a Harvest Strategy by 'clicking' in the grey area under the Harvest Strategy. Then insert a record using the 'insert' icon.

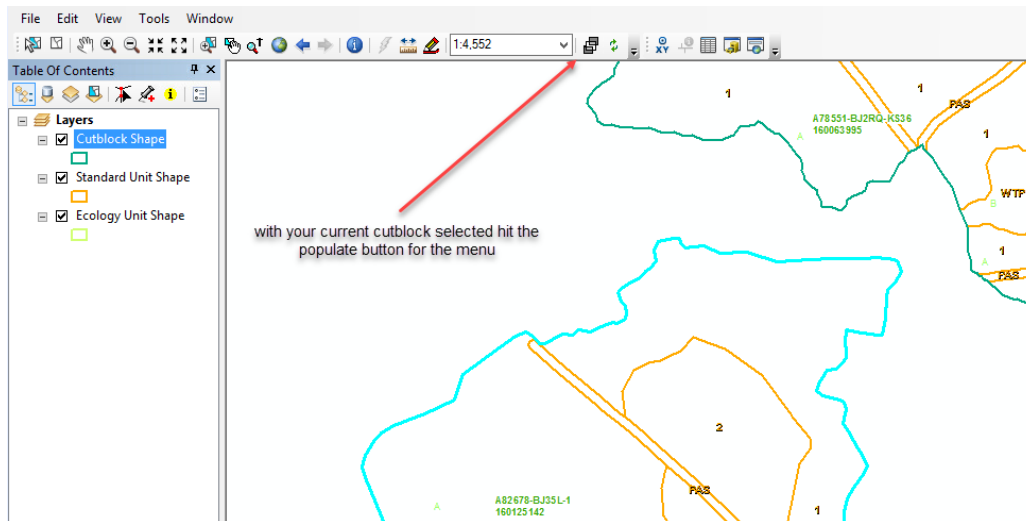
Select a strategy from the drop down list such as a 'machine free zone' along a NCD.

Complete similar data entry for Critical Season, and Harvest Method.

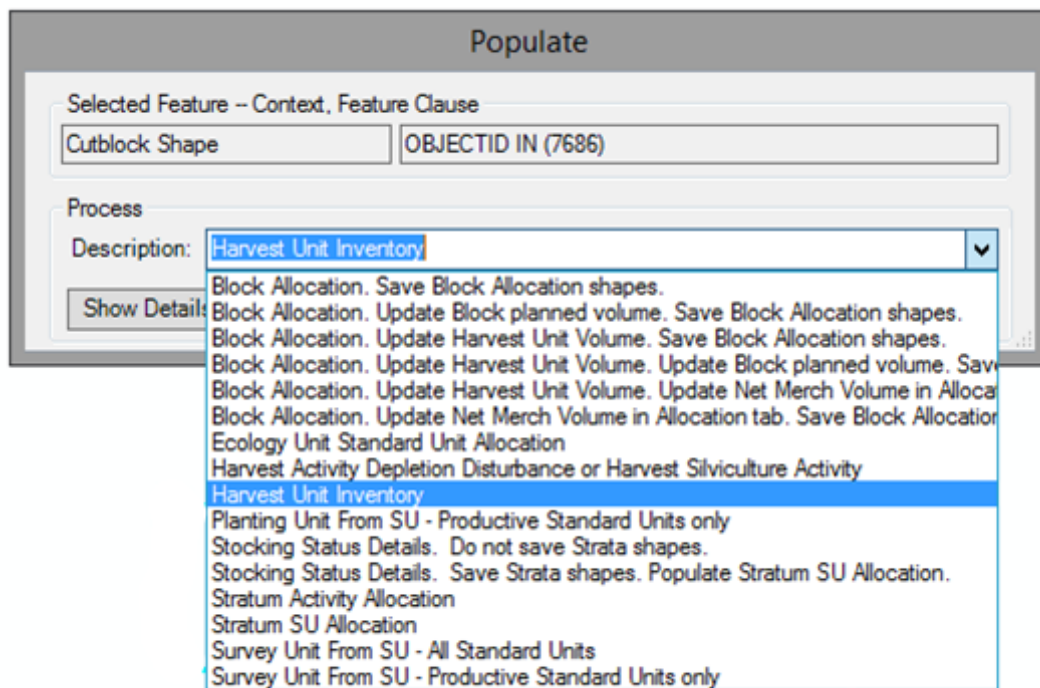
Harvest Strategy, Method and Season spatial data must be linked via methods described in <https://www.nrs.gov.bc.ca/flnrord/book/bcts-training/land-resource-manager-lrm> and on the Uduutu website. <https://lms.udutu.ca/LMSPortal/Account/Logon?ReturnUrl=%2flmsPortal%2f> for GIS Basics

When the Harvest Strategy, Method and Critical Season spatial data have been linked, the Harvest Units must be populated. All three of Harvest Strategy, Method and Season must be linked totally. This step is critical to the success of the Harvest Plan map.

Site Plan



The '**Populate**' button (in image left) populates the data as shown and requires the naming of the resulting Harvest Units with Alpha characters [such as A,B,C..., 'MFZ (machine free zone)', or STPSLP*(steep slope zone)].



Site Plan

Data View

 **Harvest Units**

Harvest Unit ID	A
Critical Season	Winter only
Harvest Method	Ground
Harvest Strategy	Standard Practice
Silviculture Strategy	
Total Merch Area(ha)	29.9
Total Merch Volume(m3)	4,866
Area Rmng(%)	100
Area Rmng(ha)	29.9
Volume Rmng(%)	100
Volume Rmng (m3)	4,866
Dig Ind	Yes
Comments	...
Attachments	...

Please note that the Harvest Unit ID is added here without the aid of a 'drop-down list'. This code is linked to our map templates and colour/pattern themed on the maps. If the Harvest Unit ID does not show up clearly on the map, the colours can be altered. Discuss changes with GIS staff.

**The definition of steep slope zone is governed by WCB regulations and depends on machine type and terrain.
The % slope and direction arrow images come from the cruise info and appear on the Cruise map and the Harvest Plan map.*

Site Plan

Step 14: Terrain stability (TER)

May be the objective for a retention area (WTRA).

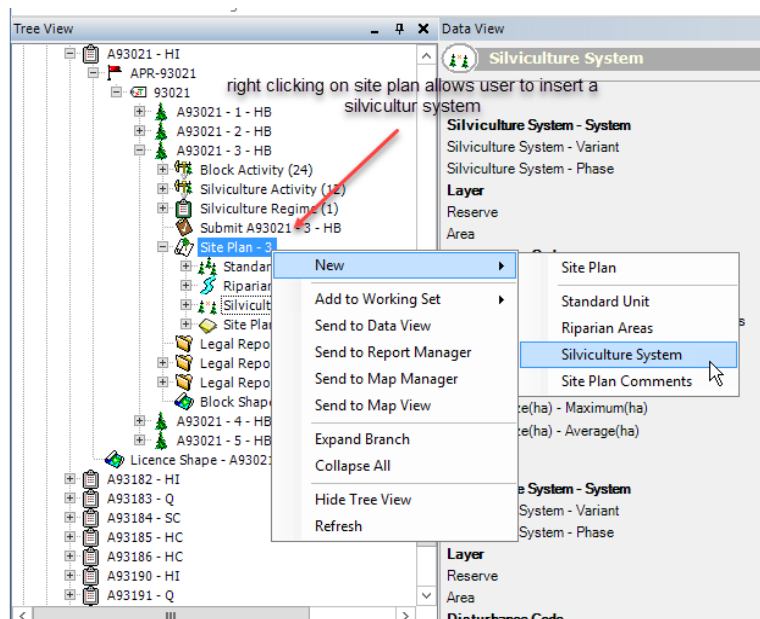
The retention polygon for a WTRA associated with terrain stability is to be identified in the WTRA VRI Label survey details found on the Silviculture Activity window. (See the list of codes on page 21 and Step 24 A, page 55)

Silv. Activities : Division: TSN/ Licence: A82331/ Cut Permit: APR-82331/ Cut Block: 1

Regime : DJA SBSmk1 07 to 10 Apply Regime

Base Activity	Activity	Date	Status	Area(Ha)
Eco Unit	Ecology Units	2007/10/05	Done	
Plan	SP	2007/10/05	Done	
Surveys	WTRA VRI Label	2009/08/19	Done	12.49

Step 15: Systems Tab



Site Plan

The screenshot shows the 'Silviculture System' software interface. On the left, a sidebar contains a tree icon and a list of menu items: 'Silviculture System - System', 'Silviculture System - Variant', 'Silviculture System - Phase', 'Layer', 'Reserve', 'Area', 'Disturbance Code', 'Current Stand Structure/Site Conditions', 'Minimum characteristics of leave trees', 'Additional Post Harvest Stand Composition Goals', 'Min. Residual BA(m2/ha)', 'Min. Residual Density(st/ha)', 'Opening Size(ha) - Minimum(ha)', 'Opening Size(ha) - Maximum(ha)', and 'Opening Size(ha) - Average(ha)'. The main area on the right is divided into two panels. The left panel is a dropdown menu with 'Clearcut with rese' selected, and other options include 'Clearcut with reserve', 'Single', 'Group', 'Logger', 'The cruise inform', and 'Deciduous are a r'. The right panel shows a list of options: 'Clearcut', 'Clearcut/Removal Cu', 'Single', 'The cruise information', and 'None'. Two black arrows originate from the 'Silviculture System - System' menu item and point to the 'Clearcut with rese' dropdown and the 'Clearcut' option in the right panel.

Silviculture System

Silviculture System - System

Silviculture System - Variant

Silviculture System - Phase

Layer

Reserve

Area

Disturbance Code

Current Stand Structure/Site Conditions

Minimum characteristics of leave trees

Additional Post Harvest Stand Composition Goals

Min. Residual BA(m2/ha)

Min. Residual Density(st/ha)

Opening Size(ha) - Minimum(ha)

Opening Size(ha) - Maximum(ha)

Opening Size(ha) - Average(ha)

Clearcut with rese

Clearcut with reserve

Single

Group

Logger

The cruise inform

Deciduous are a r

Clearcut

Clearcut/Removal Cu

Single

The cruise information

None

This information is required for the **Disturbance** report/**Harvesting Completed** activity submissions. It also populates choices for the **SU Window Systems Tab**.

Add **System and Phase, but not the Variant** and comments for each Silvicultural system. **The system for PAS is clearcut.** The phase required for wildfire is Salvage-Fire

Reserve will be group 'G' or dispersed 'D.' Ensure 'Disturbance' has a value selected from the dropdown. In most cases this should be 'L-Logged' but can be 'Burnt Wildfire' especially in Sec 108 applications.

Enter comments in sections for Current Stand Structure/Site Conditions, Minimum Characteristics of Leave Trees, and Additional Post Harvest Stand Composition Goals for each SU and retention polygon. This information includes the Objective, Basal Area [if applicable], Residual Density [if applicable] and forest cover label in the comments text rather than individual data boxes. Information such as density, distribution and size range of **aspen**, **Douglas-fir** and other species is to be included. **Save.**

Site Plan

Step 16: SU Window Silviculture Systems Tab

Data view

 Standard Unit

Standard Unit	1	NPBR	PAS	WTRA
Type	Productive	Non-Productive Swa	NP Permanent Acces	Wildlife Tree Retenti
SU NCB digitized	No	No	No	No
SU Area (ha)	28.78	.3	1.14	4.87
SU Regen Obligation	Yes	No	No	No
NCBr Area (ha)	.0	.0	.0	.0
Site Index	18			
Description	SU 1 is comprise ...	Non-Productive wet.	In-block spur road.	Wildlife Tree Retenti
Other Critical Site Conditions	The consistent pr ...			
Silvicultural System	CCRES		CLEAR	
NPN at Non-Map(ha)				
MODIFIEDON				
MODIFIEDBY				
CREATEDUSING				
CREATEDON				
CREATEDBY				

<

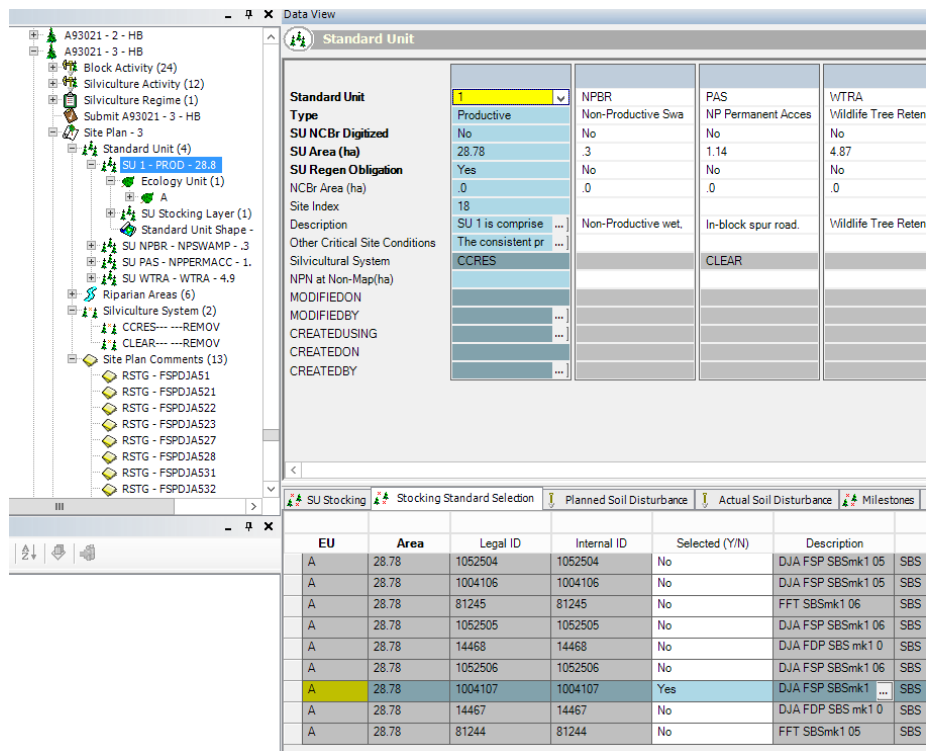
 SU Stocking  Stocking Standard Selection  Planned Soil Disturbance  Actual Soil Disturbance  Milestones  Silvicultural System

Silvicultural System	Silvicultural System Comment
CCRES - - REMO	The Clearcut with reserves si ...

Go to the **Silvicultural Systems** tab in the SU window, add any appropriate Silviculture System comments for the SU at this time.

Site Plan

Step 17: SU Window– Stocking Tab



EU	Area	Legal ID	Internal ID	Selected (Y/N)	Description	SBS
A	28.78	1052504	1052504	No	DJA FSP SBSmk1 05	SBS
A	28.78	1004106	1004106	No	DJA FSP SBSmk1 05	SBS
A	28.78	81245	81245	No	FFT SBSmk1 06	SBS
A	28.78	1052505	1052505	No	DJA FSP SBSmk1 06	SBS
A	28.78	14468	14468	No	DJA FDP SBS mk1 0	SBS
A	28.78	1052506	1052506	No	DJA FSP SBSmk1 06	SBS
A	28.78	1004107	1004107	Yes	DJA FSP SBSmk1 ...	SBS
A	28.78	14467	14467	No	DJA FDP SBS mk1 0	SBS
A	28.78	81244	81244	No	FFT SBSmk1 05	SBS

In the **SU Window**, select the **Stocking Standard Selection Tab**.

Select the appropriate **Standards ID** from the dropdown menu. Only standards with corresponding ecologies defined in the ecology section will appear

For example: The highlighted ID indicates it is for the Fort Ft James (DJA) FSP in the SBSmk1 05 site series. Toggling the selection to 'Yes' will populate the SU Stocking tab

Note: If these standards are unavailable for the district and biogeoclimatic zone in question, contact the multi-phase contract co-ordinator--[TSN Planning Department.]

The Standards ID field must be populated in order to ensure a successful Opening Definition submission to RESULTS.

NOTE: If the **Standards ID** is not available, you [BCTS staff only] may enter or amend standards manually, recognizing that **RESULTS** submissions will fail until the Standards ID is populated. ID must be as in the Operational Plan [FSP]. The Operational Plan may need to be amended.

- Enter **Regen Delay**, **Free Grow Early**(*not required for FSP Site Plans*) and **Late** dates
- **Insert** a new record, choose **Preferred** or **Acceptable** from the dropdown, and enter **Species** and **Min. Ht.**, as well as any **Footnotes**. Repeat for all species.
- Enter other stocking information



Site Plan

SU Stocking		Stocking Standard Selection		Plan
Seq ID	160010826			
Stocking Standard ID	1004107			
Description	DJA FSP SBSmk ...			
Other Performance Standards	The minimum inte ...			
Original Stocking Objective				
Regen Delay (Yrs)	7			
Regen Delay Date	2025/11/26			
Free Grow Early (Yrs)				
Free Grow Early Date				
Free Grow Late (Yrs)	20			
Free Grow Late Date	2038/11/26			

If there is dispersed mature retention within the SU it is assigned to Layer 1 [mature layer]. The objective for Douglas-Fir retained due to the Regional Douglas-fir strategy would be BIO. For Aspen, the objective would be CWD. However, aspen is not currently recognized in our FSP stocking standards and cannot be used in the mature layer until aspen is approved as a variance in our FSP.

If Layer 1 needs to be inserted and standards applied according to approved FSP stocking standards, please contact the planning

forester. Standards are approved, but no standards ID currently exist for multi layers, so this function is not active for FSP blocks at this time.

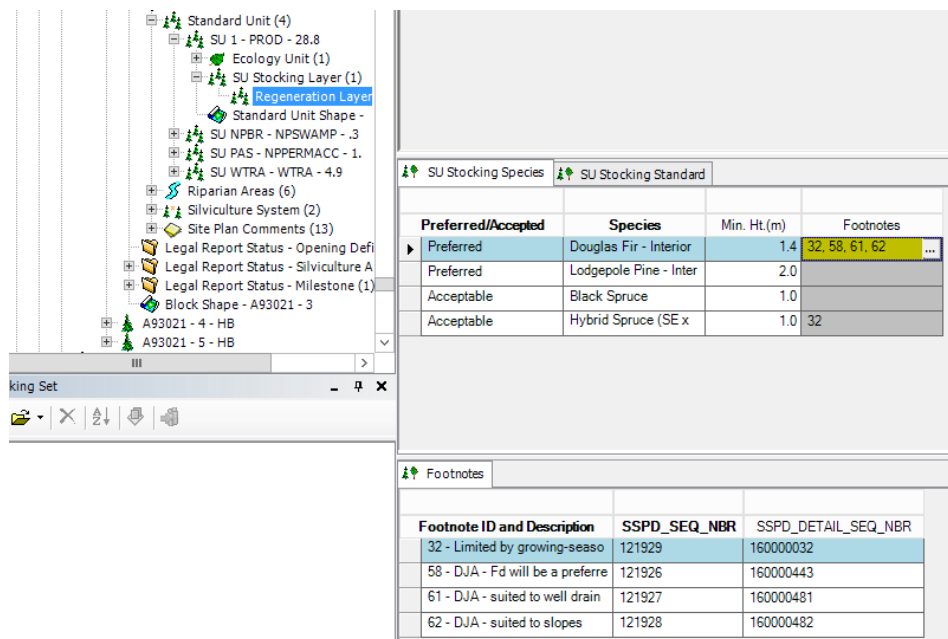
Enter relevant comments in **Other Performance Standards** text box. This section is populated from the "Other Performance Standards" section from the Maintenance tables.

NOTE: Any standards or statements that do not apply to the opening should be deleted.

Save.

Site Plan

Step 18: Approved Variation to FSP Standards



The screenshot shows the 'SU Stocking Layer' table with the following data:

Preferred/Accepted	Species	Min. Ht.(m)	Footnotes
Preferred	Douglas Fir - Interior	1.4	32, 58, 61, 62
Preferred	Lodgepole Pine - Inter	2.0	
Acceptable	Black Spruce	1.0	
Acceptable	Hybrid Spruce (SE x	1.0	32

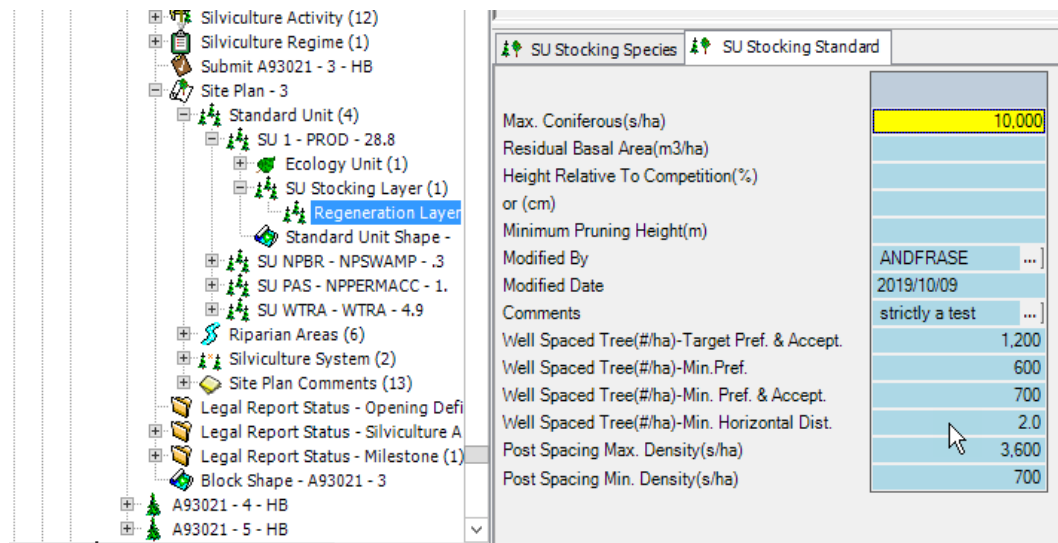
The 'Footnotes' table below it contains the following data:

Footnote ID and Description	SSPD_SEQ_NBR	SSPD_DETAIL_SEQ_NBR
32 - Limited by growing-season	121929	160000032
58 - DJA - Fd will be a preferre	121926	160000443
61 - DJA - suited to well drain	121927	160000481
62 - DJA - suited to slopes	121928	160000482

When site conditions exist that require a change to the standards, it has to be through an Approved Variation to the FSP silviculture standards otherwise an amendment to the FSP standards will be required.

To use an Approved Variation select the appropriate Standards ID as above and once the standards are

populated, make the change to the required standard or standards in the SU Stocking Layer. The "Modified By:" and "Modified Date:" fields will become editable and need to be filled in. LRM will prompt you to fill in these fields and comments prior to saving a change or exiting the screen.



The screenshot shows the 'SU Stocking Standard' table with the following data:

Parameter	Value
Max. Coniferous(s/ha)	10,000
Residual Basal Area(m3/ha)	
Height Relative To Competition(%) or (cm)	
Minimum Pruning Height(m)	
Modified By	ANDFRASE
Modified Date	2019/10/09
Comments	strictly a test
Well Spaced Tree(#/ha)-Target Pref. & Accept.	1,200
Well Spaced Tree(#/ha)-Min.Pref.	600
Well Spaced Tree(#/ha)-Min. Pref. & Accept.	700
Well Spaced Tree(#/ha)-Min. Horizontal Dist.	2.0
Post Spacing Max. Density(s/ha)	3,600
Post Spacing Min. Density(s/ha)	700



Site Plan

Then you will be able to **change** the stocking standard to the approved variation. You will have to fill in the '**modified by fields**' at the bottom of the page before LRM will let you save the new information if you alter the milestone period. If not, then those fields are greyed out.

In the '**Other Performance Standards**' add a statement that in this site plan, the approved variation is in effect. This statement will print out on the paper report of the SP documents.

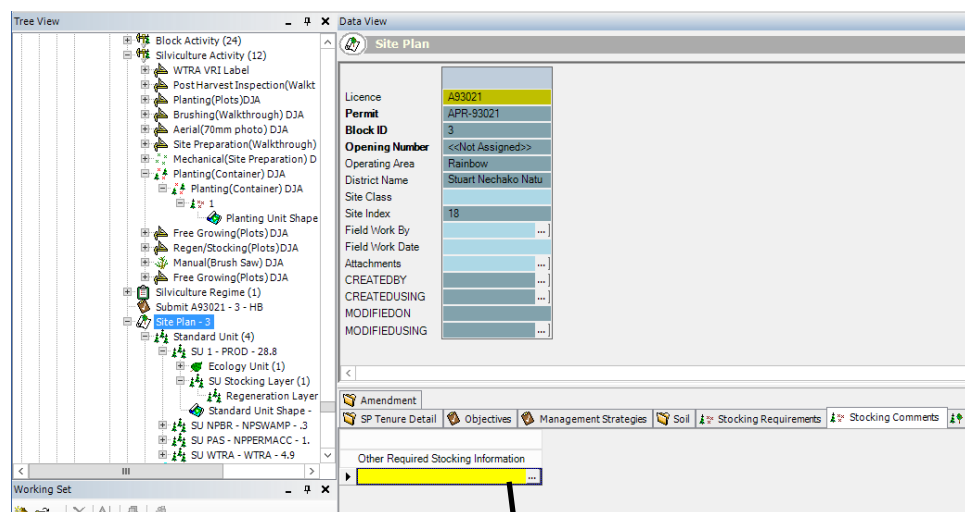
Save.



Best Business: In the comment section describe the existing conditions requiring the "Approved Variation" to the standards and make a statement to the effect that the change to the standard is an Approved Variation to the FSP standards. Note: 'double click' in the comments box to expand the editing window.

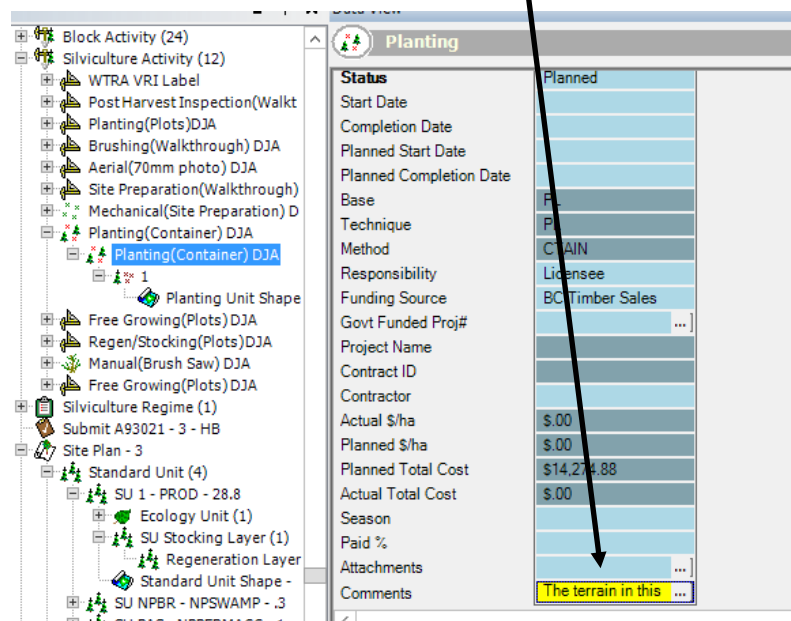
Site Plan

Step 19: Stocking Data – SP Window – Stocking Tab



Enter additional comments in the **Other Required Stocking Information**, such as Limiting Site Factors and Seedling Requirements. This should also be copied to the comments for any planting activities in the Silviculture Activity window, since sowing will be

determined by running reports on planned planting activities.



NOTE: The information in this text box will appear on the first page of the Site Plan.

Site Plan

Step 20: SP Window - Results and Strategies

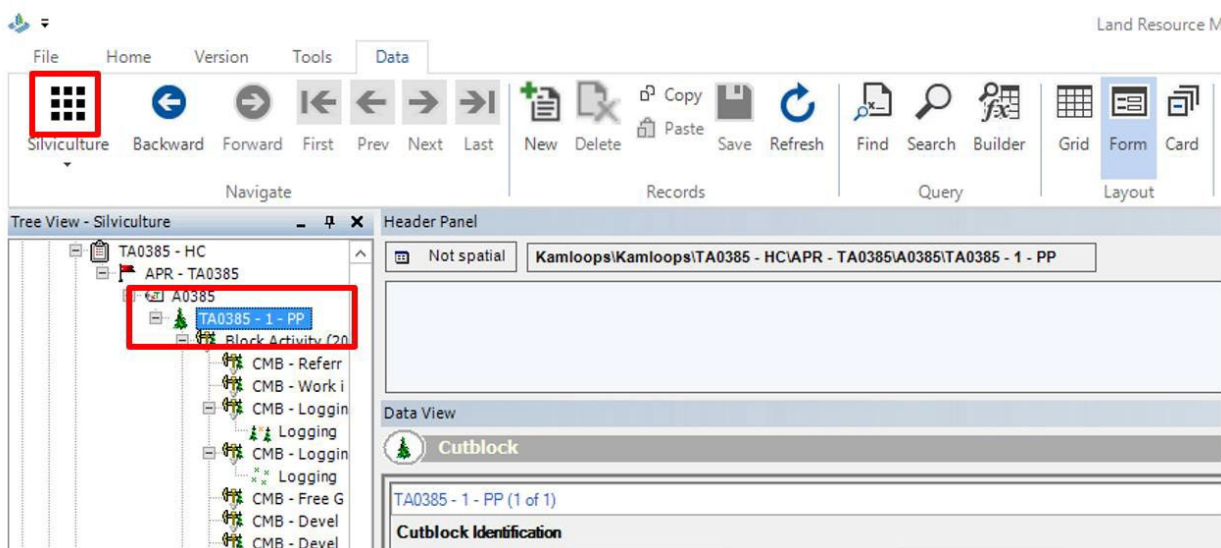
ISSUE & BACKGROUND:

With the implementation of the Planning Module, populating the Results and Strategies consists of two distinct workflows as described on the [LRM reference materials web page](#).

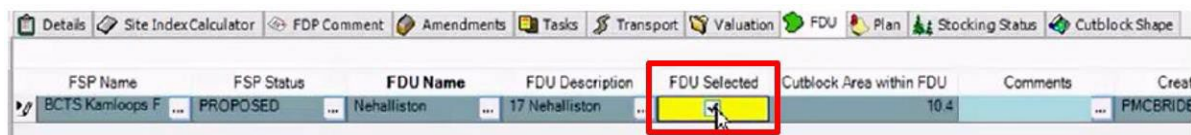
A: Under the Planning Section, "Link site plan to FSP workflow".

Link a Block Site Plan

- 1.1. Open the Block to be linked in Silviculture module. Note that steps 1.2 and 1.3 can be completed in the Blocks module as well.
- 1.2. Navigate to the desired Block.



- 1.3. Select the applicable FDU from the FDU tab in the Child Tabs.

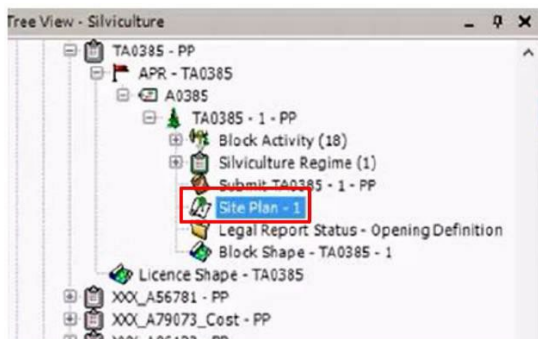


If there are no FDU's to select, then you need to run the overlay process.

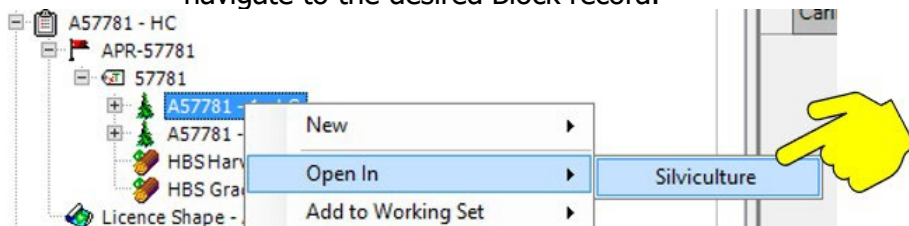
The selection list is limited (spatially) to any active FSPs overlapping the selected block. Only one FDU can be selected. Click Save.

- 1.4. In Tree View, navigate to the Site Plan you wish to link to the FSP.

Site Plan

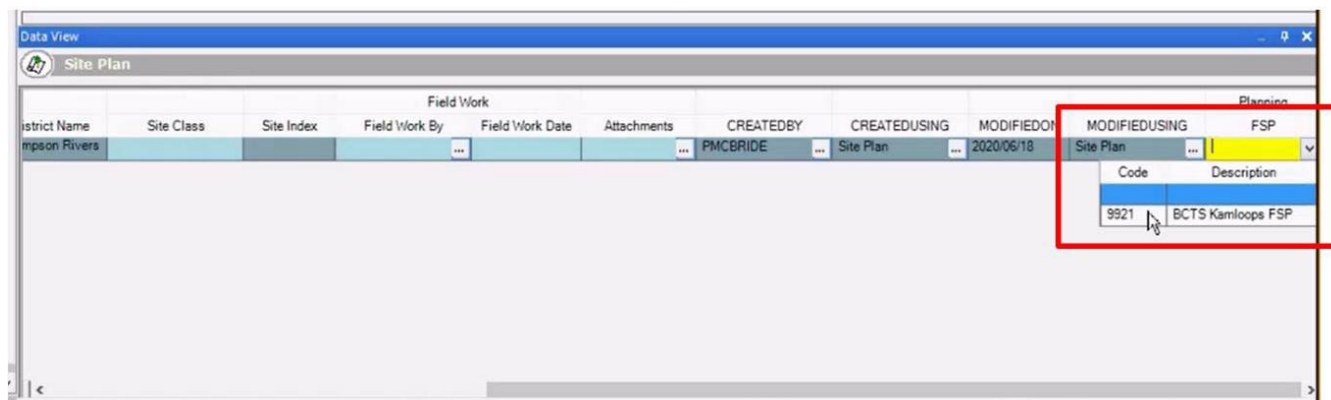


1.4.1. If you are in the Blocks Module you can move directly to the same block in the Silviculture module by right-clicking on the Block record and selecting "Open In – Silviculture". Or, you can open the Silviculture Module and navigate to the desired Block record.



1.4.2 If the Site Plan node does not appear, you will need to Add New – Site Plan before proceeding. Be sure to check with your Silviculture Admin to ensure this is the right time to create that record.

1.5. On the Site Plan context, select the "Planning FSP" dropdown.



1.5.1. In most cases, the Planning FSP selection is on the far right of the grid. Scroll to far right to see this field.

1.5.2. Select the FSP you wish to link.

1.5.3. Save the record.

1.5.4. A warning message will appear explaining that this action will 100%

Site Plan

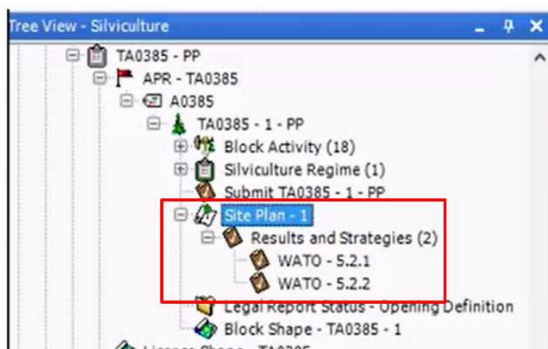
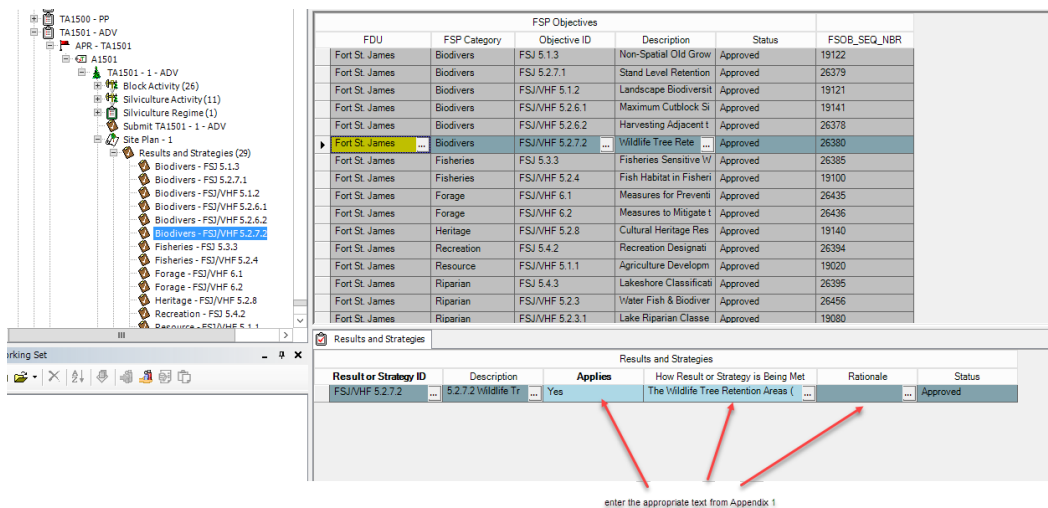
over-write existing Results and Strategies records.

NOTE: No record is retained of the previous R&S settings. This is your last chance to cancel this operation.

IMPORTANT: If you select a blank FSP, the system will warn you that this action will REMOVE all existing Results and Strategies records. As previously noted, no record of the previous Results and Strategies records are retained.

1.6. Results and Strategies will now appear in the Site Plan, ready for editing.

Required and recommended text is included in Appendix 1

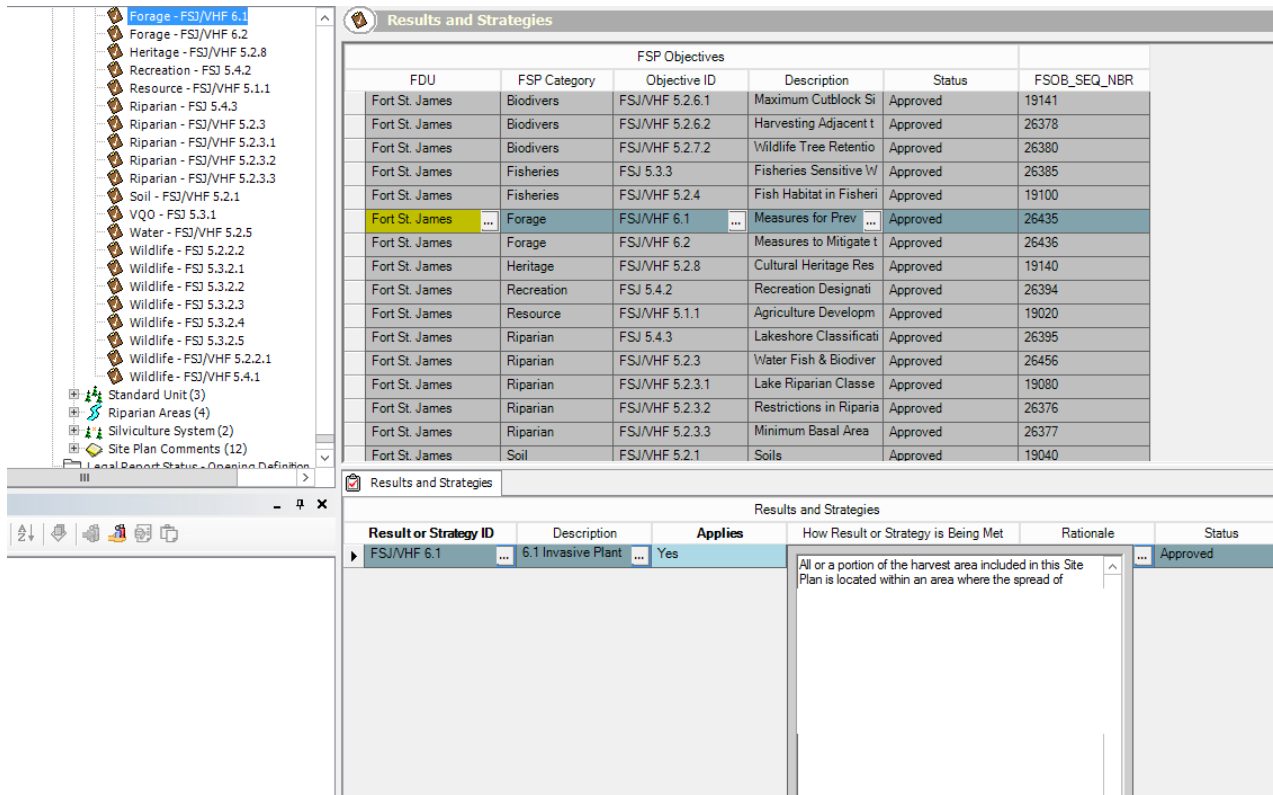



FDU	FSP Category	Objective ID	Description	Status	FSOB_SEQ_NBR
Fort St. James	Biodivers	FSJ 5.1.3	Non-Spatial Old Grow	Approved	19122
Fort St. James	Biodivers	FSJ 5.2.7.1	Stand Level Retention	Approved	26379
Fort St. James	Biodivers	FSJ/VHF 5.1.2	Landscape Biodiversit	Approved	19121
Fort St. James	Biodivers	FSJ/VHF 5.2.6.1	Maximum Cutblock Si	Approved	19141
Fort St. James	Biodivers	FSJ/VHF 5.2.6.2	Harvesting Adjacent t	Approved	26378
Fort St. James	Biodivers	FSJ/VHF 5.2.7.2	Wildlife Tree Reten	Approved	26380
Fort St. James	Fisheries	FSJ 5.3.3	Fisheries Sensitive W	Approved	26385
Fort St. James	Fisheries	FSJ/VHF 5.2.4	Fish Habitat in Fishen	Approved	19100
Fort St. James	Forage	FSJ/VHF 6.1	Measures for Preventi	Approved	26435
Fort St. James	Forage	FSJ/VHF 6.2	Measures to Mitigate t	Approved	26436
Fort St. James	Heritage	FSJ/VHF 5.2.8	Cultural Heritage Res	Approved	19140
Fort St. James	Recreation	FSJ 5.4.2	Recreation Designati	Approved	26384
Fort St. James	Resource	FSJ/VHF 5.1.1	Agriculture Developm	Approved	19020
Fort St. James	Riparian	FSJ 5.4.3	Lakeshore Classificat	Approved	26395
Fort St. James	Riparian	FSJ/VHF 5.2.3	Water Fish & Biodiver	Approved	26456
Fort St. James	Riparian	FSJ/VHF 5.2.3.1	Lake Riparian Classe	Approved	19080

Result or Strategy ID	Description	Applies	How Result or Strategy is Being Met	Rationale	Status
FSJ/VHF 5.2.7.2	5.2.7.2 Wildlife Tr	Yes	The Wildlife Tree Retention Areas (		Approved

enter the appropriate text from Appendix 1

Site Plan



FSP Objectives					
FDU	FSP Category	Objective ID	Description	Status	FSOB_SEQ_NBR
Fort St. James	Biodivers	FSJ/VHF 5.2.6.1	Maximum Cutblock Si	Approved	19141
Fort St. James	Biodivers	FSJ/VHF 5.2.6.2	Harvesting Adjacent t	Approved	26378
Fort St. James	Biodivers	FSJ/VHF 5.2.7.2	Wildlife Tree Retentio	Approved	26380
Fort St. James	Fisheries	FSJ 5.3.3	Fisheries Sensitive W	Approved	26385
Fort St. James	Fisheries	FSJ/VHF 5.2.4	Fish Habitat in Fisheri	Approved	19100
Fort St. James	Forage	FSJ/VHF 6.1	Measures for Prev ...	Approved	26435
Fort St. James	Forage	FSJ/VHF 6.2	Measures to Mitigate t	Approved	26436
Fort St. James	Heritage	FSJ/VHF 5.2.8	Cultural Heritage Res	Approved	19140
Fort St. James	Recreation	FSJ 5.4.2	Recreation Designati	Approved	26394
Fort St. James	Resource	FSJ/VHF 5.1.1	Agriculture Developm	Approved	19020
Fort St. James	Riparian	FSJ 5.4.3	Lakeshore Classificati	Approved	26395
Fort St. James	Riparian	FSJ/VHF 5.2.3	Water Fish & Biodiver	Approved	26456
Fort St. James	Riparian	FSJ/VHF 5.2.3.1	Lake Riparian Classe	Approved	19080
Fort St. James	Riparian	FSJ/VHF 5.2.3.2	Restrictions in Riparia	Approved	26376
Fort St. James	Riparian	FSJ/VHF 5.2.3.3	Minimum Basal Area	Approved	26377
Fort St. James	Soil	FSJ/VHF 5.2.1	Soils	Approved	19040

Results and Strategies					
Result or Strategy ID	Description	Applies	How Result or Strategy is Being Met	Rationale	Status
FSJ/VHF 6.1	6.1 Invasive Plant	Yes	All or a portion of the harvest area included in this Site Plan is located within an area where the spread of		Approved

Due to current limitations within LRM, the Invasive Plants Measure is currently addressed within the "Forage" FSJ/VHF 6.1 Result and Strategy and the Natural Range Barrier measure is currently addressed within the "Forage" FSJ/VHF 6.2 Result and Strategy with the appropriate text located in Appendix 1. When grass seeding is indicated in the selected comment, then it also requires scheduling of the task and monitoring in the Roads Module. Road segments [start and end stations] must already be entered in LRM to schedule activities. Please see the related Roads User Guides for road data entry.

*Reminder: we are required to report the location of invasive plant species.
The Invasive Plant Regulation contains a list of plants that must be reported.*

The site to use for reporting invasive plants is:

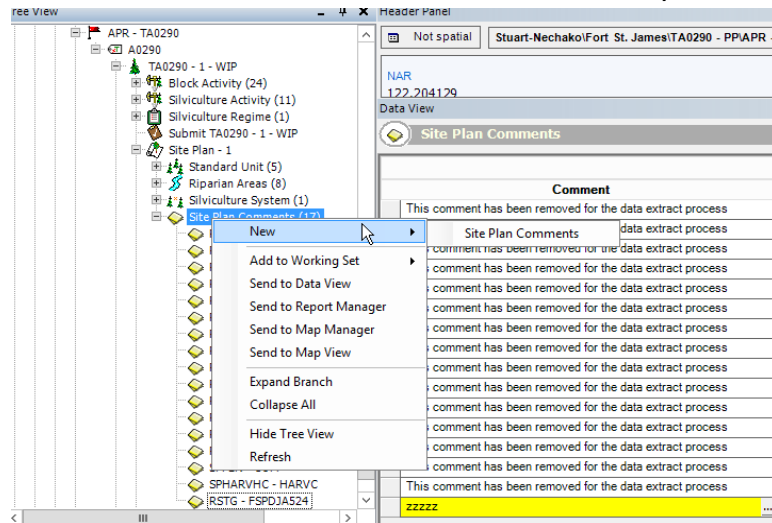
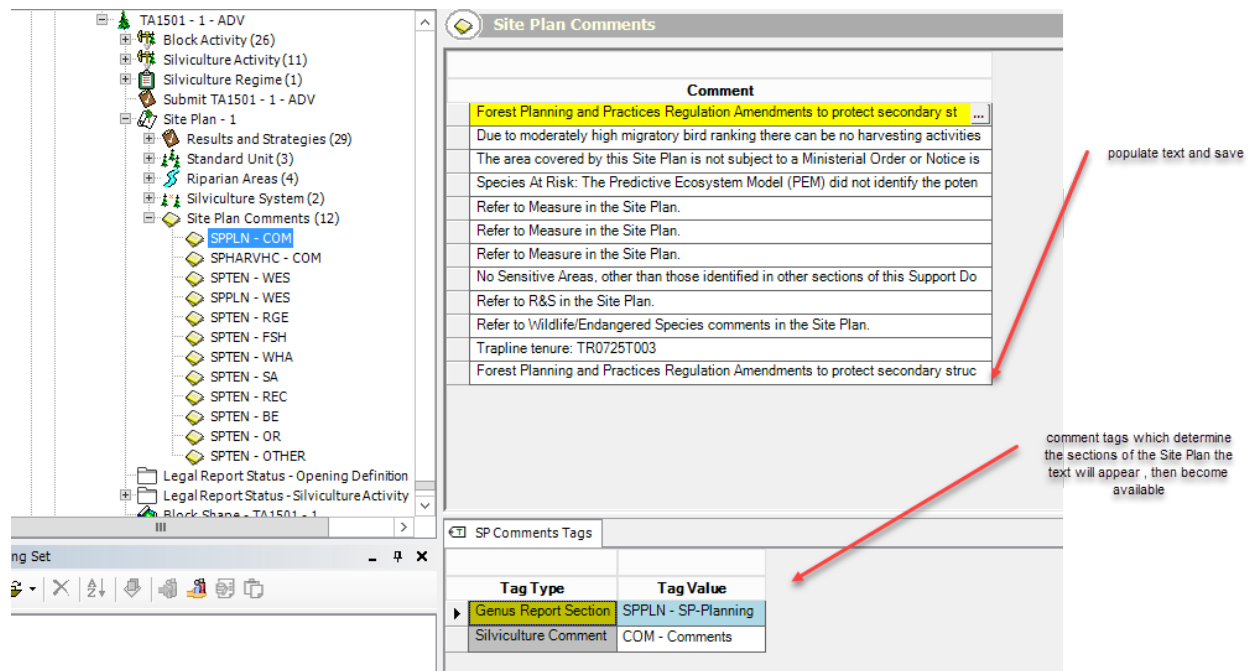
<https://www2.gov.bc.ca/gov/content/environment/plants-animals-ecosystems/invasive-species/management/plants>

A Good reference site with photo ID links is: <https://www2.gov.bc.ca/gov/content/environment/pesticides-pest-management/managing-pests/plants?keyword=Plant&keyword=publications>

Examples of FSP 6.1 Invasive Plants comments leading to the need to schedule seeding in **both** the Silviculture Activity window and Roads Module and monitoring of the seeding efficacy in the Roads Module. The procedures for scheduling grass seeding in the Roads and as a silviculture activity in the Silviculture Module will be covered in **STEP 24**

Site Plan

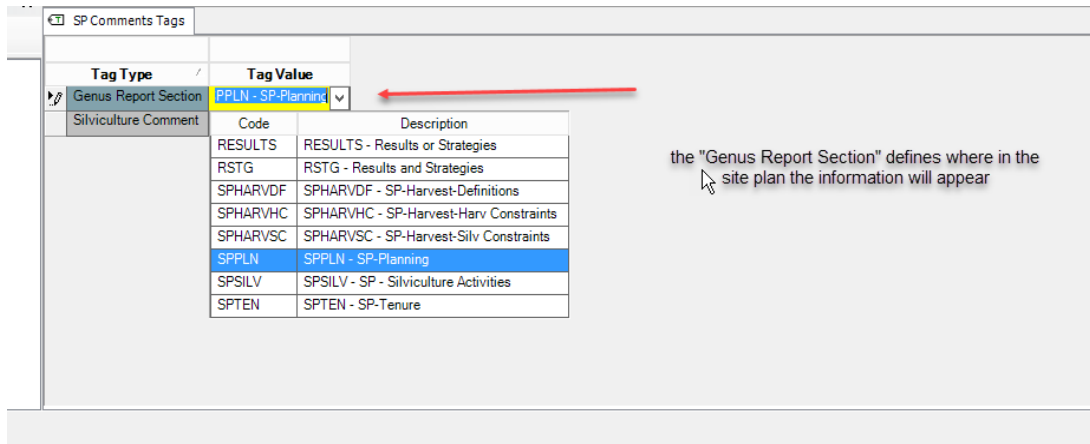
B: Under the Silviculture section – "Generate site plan workflow"



Required and recommended text is included in Appendix 1

Once all comments applicable [on a site level] to the SP are entered, **Save it!**

Site Plan



SP Comments Tags

Tag Type	Tag Value
Genus Report Section	SPPLN - SP-Planning
Silviculture Comment	

Code	Description
RESULTS	RESULTS - Results or Strategies
RSTG	RSTG - Results and Strategies
SPHARVDF	SPHARVDF - SP-Harvest-Definitions
SPHARVHC	SPHARVHC - SP-Harvest-Harv Constraints
SPHARVSC	SPHARVSC - SP-Harvest-Silv Constraints
SPPLN	SPPLN - SP-Planning
SPSILV	SPSILV - SP - Silviculture Activities
SPTEN	SPTEN - SP-Tenure

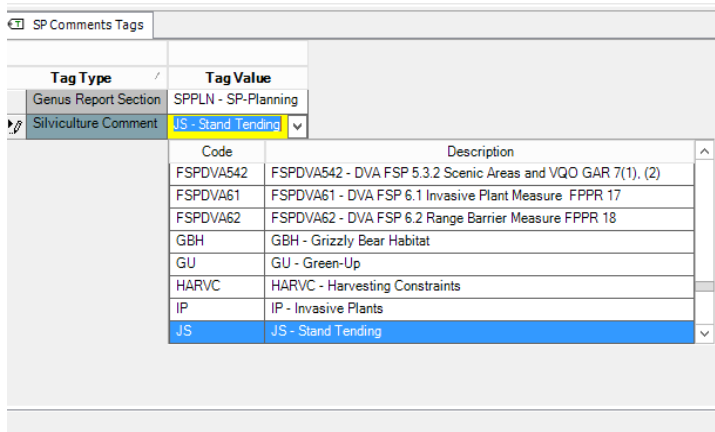
the "Genus Report Section" defines where in the site plan the information will appear

The Silviculture Comment Tag defines the comment header

Step 21: SP Window - Comments Tab - Supporting Information

To add additional comments concerning other site plan factors:

- Select the **Comments** tab in the SP Window;
- Click INSERT RECORD to open the Comment Editor window;
- Select SP-Planning as the Genus Report Section; each of the report sections can be selected at this point and can have associated comments for the Planning, Harvest and Silviculture.
- Select the appropriate comment header as the Silviculture Comment Header, an extensive list is available
- Enter comments.



SP Comments Tags

Tag Type	Tag Value
Genus Report Section	SPPLN - SP-Planning
Silviculture Comment	JS - Stand Tending

Code	Description
FSPDVA542	FSPDVA542 - DVA FSP 5.3.2 Scenic Areas and VQO GAR 7(1), (2)
FSPDVA61	FSPDVA61 - DVA FSP 6.1 Invasive Plant Measure FPPR 17
FSPDVA62	FSPDVA62 - DVA FSP 6.2 Range Barrier Measure FPPR 18
GBH	GBH - Grizzly Bear Habitat
GU	GU - Green-Up
HARVC	HARVC - Harvesting Constraints
IP	IP - Invasive Plants
JS	JS - Stand Tending

Site Plan

22: Admin Data – SP Window – Admin Tab

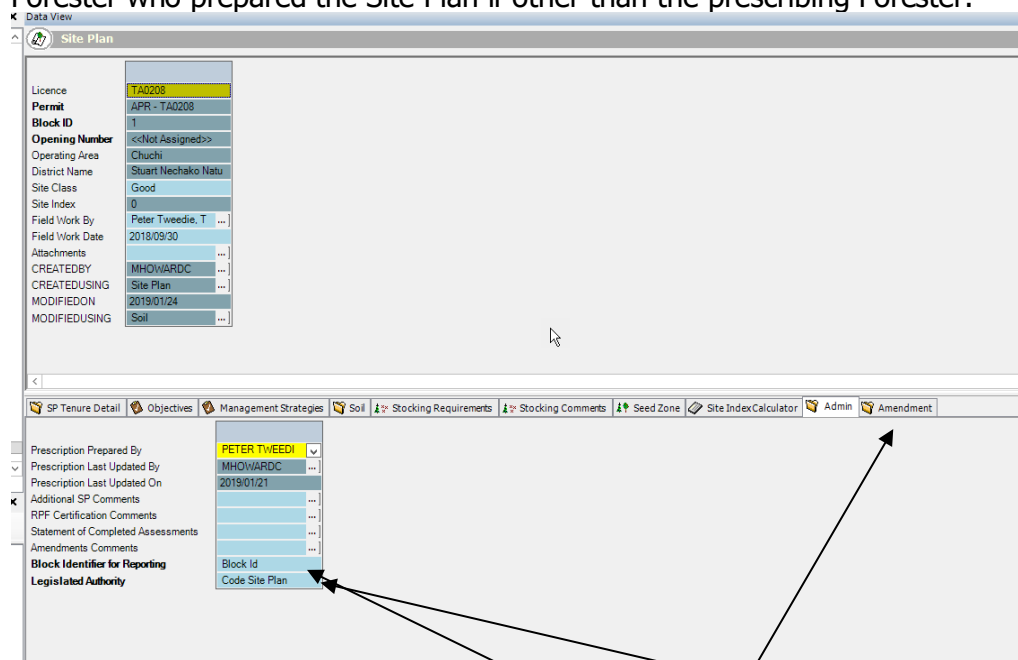
Enter the name of the RPF who has prepared the Site Plan in the **Prescription Prepared by – Name** field.

Note: If the RPF's name does not appear in the dropdown list, contact the TSN administrator to have their name added to the maintenance tables.

For an Original Site Plan, **Insert** a new record and enter required dates.

Any subsequent Amendments would follow in sequence.

Toggle the Map Req'd to 'Yes' and 'Click' on the Comment "Key" and insert the name of the Forester who prepared the Site Plan if other than the prescribing Forester.



Licence	TA0208
Permit	APR - TA0208
Block ID	1
Opening Number	<<Not Assigned>>
Operating Area	Chuchit
District Name	Stuart Nechako Natu
Site Class	Good
Site Index	0
Field Work By	Peter Tweedie, T
Field Work Date	2018/09/30
Attachments	
CREATEDBY	MHOWARDC
CREATEDUSING	Site Plan
MODIFIEDON	2019/01/24
MODIFIEDUSING	Soil

Prescription Prepared By	PETER TWEEDIE
Prescription Last Updated By	MHOWARDC
Prescription Last Updated On	2019/01/21
Additional SP Comments	
RPF Certification Comments	
Statement of Completed Assessments	
Amendments Comments	
Block Identifier for Reporting	Block Id
Legislated Authority	Code Site Plan

Block Identifier for Reporting – indicate **Block ID**

Ensure Code Site Plan or FRPA Site Plan is selected from the dropdown list. **New Site Plans (in 2021) are currently being managed using "Code Site Plan."**

Site Plan

SP Tenure Detail		Objectives	Management Strat
Amendment Number	Original		
Amendment Type	N/A		
Amendment Description			
Responsibility	PETER TWEEDIE		
Status	Planned		
Submission Date			
Licensee Approval Date			
District Approval Date			
Map Required			
Attachments	...		
Standard Amendment Rationale	...		

The amendment tab is to be filled out when required.

Save

Step 23: Silviculture Activities Window – Develop Silviculture Plan

Select the appropriate Silviculture **Regime** from the dropdown list to populate default activities for the Site Plan based on site plan field work. Then 'click' **Apply Regime** to populate the table.

View Data View

Silviculture Regime

Block Id	Regime Name	Regime Creation Date	By	On	Using	On	Using	By
1	DJA SBS Default	01/12/2016				2019/01/24	Silviculture Regim	MHOWARDC

Code Description

160000181	Default Regime
160000221	DVA Normal - Site Prep Planting
160000224	DVA Plant w/o Site Prep
160003099	DJA ESSFm3 02. 03
160003899	DJA ESSF Default
160003900	DJA SBS Default

Select the appropriate Silviculture regime to add the default activities and scheduling. Changes to the regimes are controlled by NRS help desk.

Silv Regime Template

Base Activity	Activity Name	Active	Technique	Method	Cost/ha	Status	Date Offset UOM	Offset Value
Brushing	Manual(Brush Sa	Yes	MA	BRUSH	500.90	Planned	Year	10
Planting	Planting(Containe	Yes	PL	CTAIN	435.66	Planned	Year	2
Surveys	Aerial(70mm phot	No	RE	70MM	2.50	Planned	Year	7
Surveys	Brushing(Walkthr	Yes	BR	WALK	0	Planned	Year	9
Surveys	Regen/Stocking(	Yes	RG	PLOT	22.01	Planned	Year	5
Surveys	Planting(Plots)DJ	Yes	PL	PLOT	0	Planned	Year	2
Surveys	Free Growing(Plo	Yes	FG	PLOT	33.27	Planned	Year	13
Surveys	Free Growing(Plo	Yes	FG	PLOT	33.27	Planned	Year	8
Surveys	Site Preparation(	Yes	SP	WALK	0	Planned	Months	6
Surveys	Post Harvest Insp	Yes	PO	WALK	0	Planned	Months	3
Surveys	WTRA VRI Label	Yes	SI	WALK	0	Planned	Days	-1



Site Plan

Step 24: Base Activity Windows – Details of Silviculture Regime – Pre-harvest

Enter data in each of the populated 'Base Activity' windows. The Base Activity and Activity will be auto populated on the **Details** Tab of each of the activities in the 'RESULTS' section as '**Base**' '**Technique**' and '**Method**'. The **dates** will be auto populated with a schedule of default timing following data entry of the **actual** harvesting information.

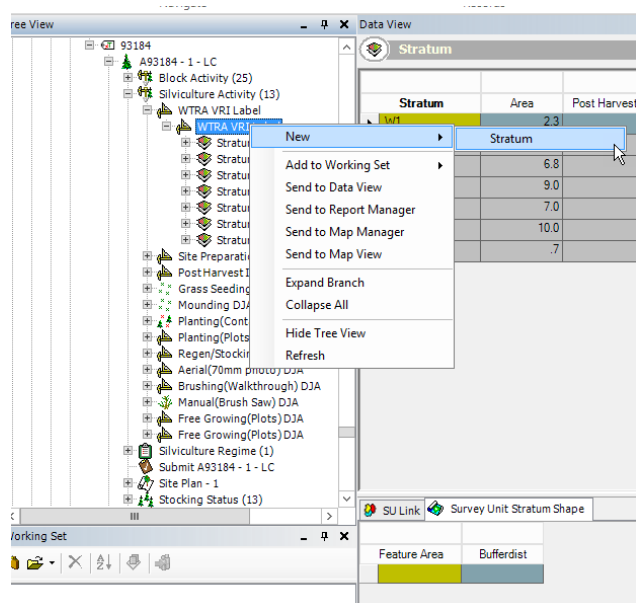
To open each window, move the red arrow cursor to identify the activity and 'double click' the activity.

Site Plan

Surveys: WTRA VRI Label

The information in this activity sets up all of the non-merc polygons for future reporting.

Open the survey activity.



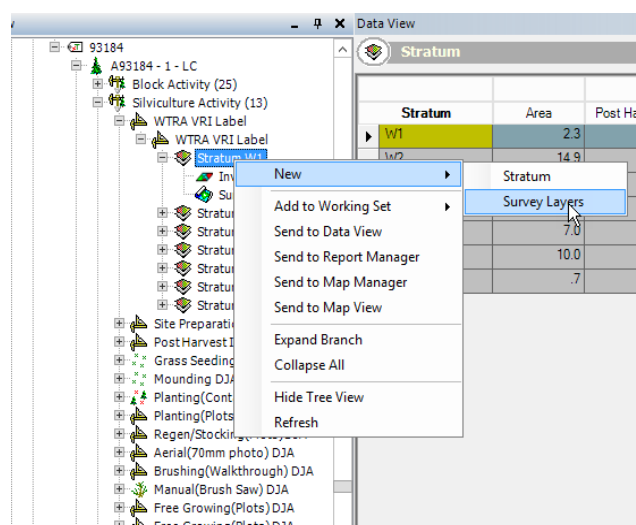
Add a new stratum

Enter data fields as in this example.
If the survey is a planned activity, adding the stratum area without any layer info will populate for silviculture liability.

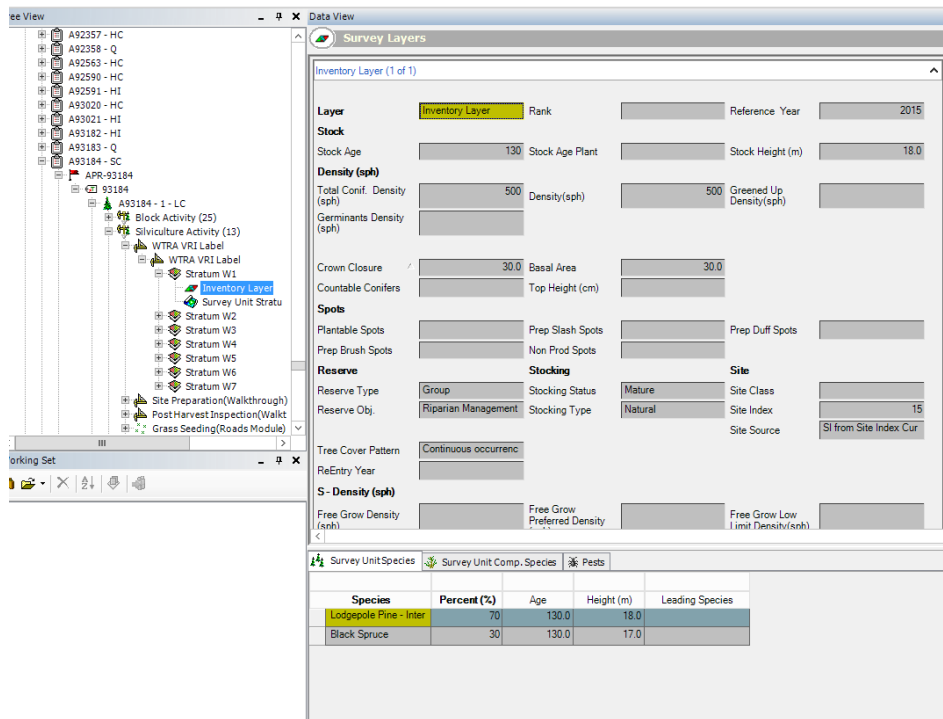
This function should be done for all planned survey activities.

On the WTRA survey layer information is required at the Site Plan creation stage.

Then add a new Survey Layer



Site Plan



Species	Percent (%)	Age	Height (m)	Leading Species
Lodgepole Pine - Inter	70	130.0	18.0	
Black Spruce	30	130.0	17.0	

For each stratum:
Populate the **Inventory layer only**.

Polygons with like objectives and forest cover labels **only** may be grouped into a single stratum. If the information is not similar, then create additional retention polygons. New polygons will need to be linked to the spatial data. Refer to the GIS-BASICS on Uduntu for linking/digitizing instructions.

The site index (SI) "source" varies. For example, if it is from the VRI, then it would be "C" from site index curve. If the SI source is from the SIBEC Model, then the code would be "E." Current behaviour indicates that SI should be populated first as an error prompt may sometimes occur and prevent data entry

The retention polygons and strata set up at this time will be submitted to RESULTS at the time the first set of surveys and opening definition is reported and will be included in further reports.

Guidance for RESULTS forest cover information resides at
https://www2.gov.bc.ca/assets/gov/farming-natural-resources-and-industry/forestry/silviculture/silviculture-results/forest_cover_retention_submissions_may_5_2016_final.pdf

Site Plan

Reserve Objective Codes

Reserve Code	Description
BIO	Biodiversity
BOT	Botanical Forest Products
CHR	Cultural Heritage Resource
CWD	Coarse Woody Debris
FH	Forest health
FUE	Fuel Management
MSM	MSMA Treated Area
OTH	Other
REC	Recreation
RMA	Riparian Management Area
SEN	Sensitive Site
TER	Terrain Stability
TIM	Timber management
VIS	Visual
WTR	Wildlife Tree Retention Goals

What is the difference between Reserve objective codes of "WTR" - Wildlife Tree Retention Goals and "BIO" - Biodiversity?

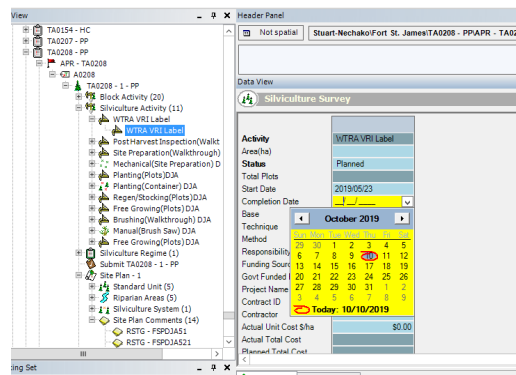
The wildlife tree retention (WTR) objective code is used to indicate that a forested area is reserved from harvest for at least one rotation for the purposes of wildlife trees, unless exempted under FPPR 91. This WTR objective code is also used as a tool to track whether licensees are meeting the practices requirement for wildlife tree retention identified under FPPR 66 or an alternative Result or Strategy approved as part of an FSP. This code is also associated with other practices requirements such as FRPP 67 – Restriction on harvesting. Actual WTR areas are registered in the LRDW and indicate a legal encumbrance for subsequent tenure applications. FRPA general bulletin number 8 provides some

details and interim guidance for district staff on this.

FRPA general bulletin number 8:

<https://www.for.gov.bc.ca/ftp/TSN/external/!publish/Web/frpa-general-no-8-wildlife-tree-retention-area-dec-2011.pdf>

The biodiversity objective code on the other hand is used to identify that a forested area is set aside for general biodiversity reasons. This code is not associated with any practices requirements or FSP results or strategy. It is not used to determine whether a licensee has met an obligation. This code does not have the same legal context as the WTR objective code. Areas of forest reserved under the biodiversity objective code are not necessarily restricted from future harvest as are areas of forest set aside under the WTR objective code.



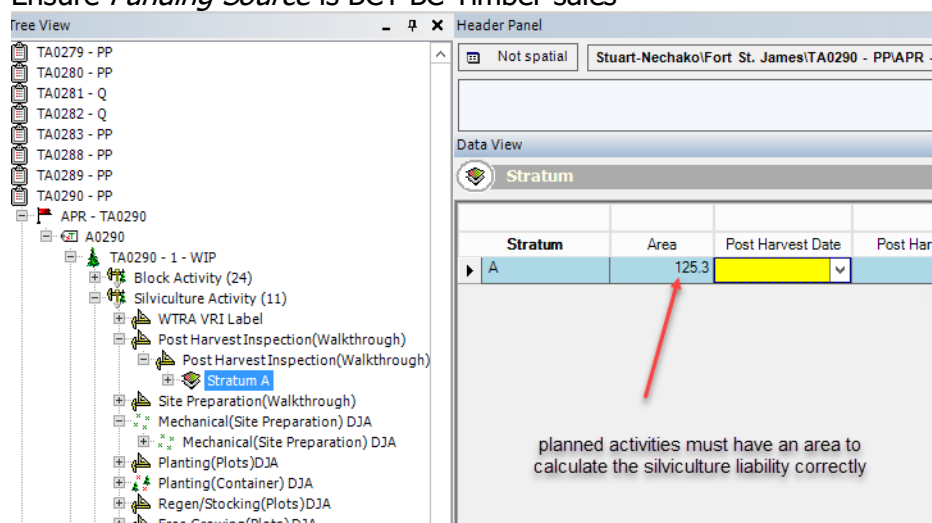
Set WTRA VRI Label to "Done" & enter "Completion Date" on the Survey **"Details Tab"**.

Site Plan

Surveys: Post Harvest Inspection (Plots)

Enter fields as shown below.

Ensure *Funding Source* is BCT BC Timber sales



Stratum	Area	Post Harvest Date	Post Har
A	125.3		

planned activities must have an area to calculate the silviculture liability correctly

NOTE: Area is populated on the **Details Tab** by inserting a record on the **Survey Units Tab** with the **Strata** area.

The "Survey Units" Tab entry must be manually inserted and populated with a strata name and area. An error in the Silviculture Liability will occur otherwise.

Strata are always identified with alphabetic characters.



NOTE: The SU Link, Cost information and Site Disturbance (%) will be completed postharvest prior to reporting to RESULTS by BCTS Staff.

Site Plan

0290
0
A0290 - 1 - WIP
Block Activity (24)
Silviculture Activity (11)
WTRA VRI Label
Post Harvest Inspection(Walkthrough)
Stratum 30
Site Preparation(Walkthrough)
Mechanical(Site Preparation) DJA
Site Preparation Shape - TA0290 -
Planting(Plots) DJA
Planting(Container) DJA
Regen/Stocking(Plots) DJA
Free Growing(Plots) DJA
Brushing(Walkthrough) DJA
Manual(Brush Saw) DJA
Free Growing(Plots) DJA
Silviculture Regime (1)
Submit TA0290 - 1 - WIP
Site Plan - 1
Legal Report Status - Opening Definition
Legal Report Status - Silviculture Activity (11)
Legal Report Status - Milestone (2)
III

Data View
Site Preparation

Activity	Mechanical Site Prep
Area(ha)	122.2
Status	Planned
Start Date	2019/12/04
Completion Date	
Base	SP
Technique	ME
Method	
Responsibility	
Funding Source	BCTS Timber Sales
Govt Funded Proj#	
Project Name	
Contract ID	
Actual Unit Cost (\$/ha)	\$0.00
Actual Total Cost	\$0.00
Planned Unit Cost (\$/ha)	\$950.00
Planned Total Cost	\$116,090.00
Contractor	
Season	
Site Disturbance(%)	
Attachments	
Comments	
SILA_SEQ_NBR	163155847

Planned Site Preparation activities will be reviewed postharvest. Enter the survey detail for this Site Preparation (WalkThrough).

Area must be entered on the **Survey Units** Tab.

Strata are identified with alphabetic characters.

Site Plan

Planting:

Planting

Planting(Container) DJA (1 of 1)

Activity Planting(Container)

Area (ha)

Status

Dates

Start Date Completion Date Planned Start Date

Planned Completion Date

RESULTS

Base Technique Method

Responsibility Funding Source Govt Funded Proj#

Contract Info

Project Name Contract ID Contractor

Costs

Actual \$/ha Planned \$/ha Planned Total Cost

Actual Total Cost

Season

Paid %

Attachments

Comments

<

Species Summary **Planting Unit SU Link**

Species	%	Trees	Exceeds Transfer Limit	Seedling Cost	Planting Cost	Comment
Pl	71.7	140096		\$0.00	\$0.00	...
Sx	28.4	55424		\$0.00	\$0.00	

This information will appear in the **Silviculture Plan** section of the User Defined Site Plan Report document.

The **comment text box** information should include: The range of expected, acceptable treatments such as mixed species planting, or planting Sx in areas of deciduous or where aspen, birch, cottonwood, alder and willow are likely to resprout; and **Limiting Factors** such as frost, cold soils, moisture and any other concerns such as mistletoe or the alternate hosts for Comandra/Stalactiform in the previous stand or on an adjacent site.



Site Plan

Planting Unit

1 (1 of 2)

Planting Units

Unit ID	1	Area(ha)	102.0	Quality (%)	
Total Trees	163,200	Density(st/ha)	1,600	Exceeds Transfer Limit	0
Min. Spacing Info(m)		Max. Spacing Info(m)		Target Spacing Info (m)	
Survival Percent (%)		Date		When Area Is Changed	Update Density
When Updating Species	Update Percent				
Cost					
Actual Total Cost		Actual Unit Cost (\$/st)		Actual Unit Cost (\$/ha)	
Planned Total Cost		Planned Unit Cost (\$/st)		Planned Cost(\$/ha)	

2 (2 of 2)

<

Planting Unit Species **Actual Cost** **Planned Cost** **Planting Unit Shape**

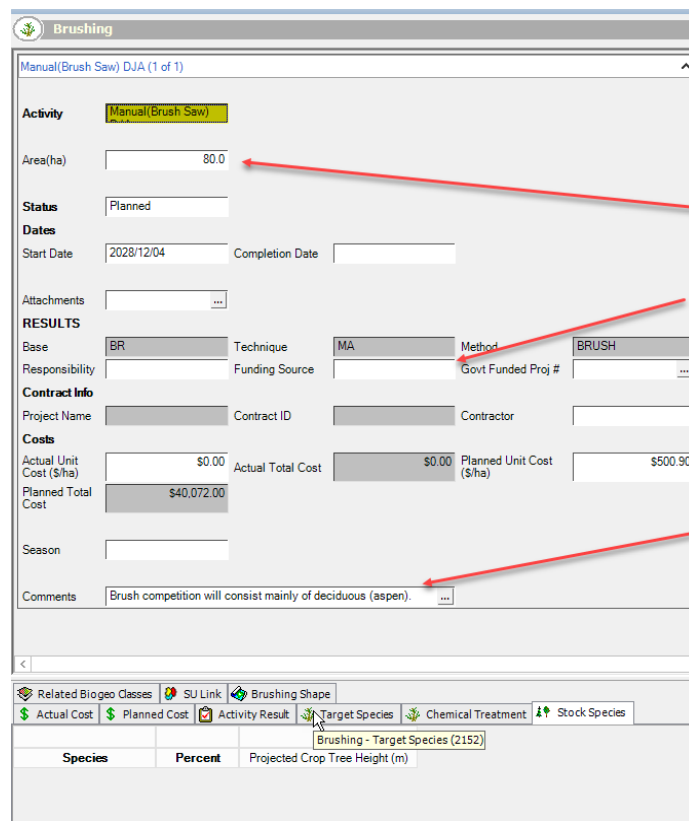
Species	Lodgepole Pine	Hybrid Spruce (SE x
Trees	114,249	48,960
Seed Lot		
Request Key		
Percent (%)	70.0	30.0
No. of Trees that Exceed Transfer Limit		
Comments		
Outside Transfer Limit	No	No

On the **Planting Units** Tab, enter Area, Density (st/ha), Species and Pct [% species mix].

The total trees and costs will auto calculate on the **Planting Units Tab** and populate the costs, and Species Summary on the **Main Planting Tab**.

Site Plan

Brushing:



The **Details** Tab provides information that will appear in the **Silviculture Plan** section of the User Defined Site Plan Report document.

'Area' is entered directly on this screen.

Funding Source is BCT BC Timber sales

Comments Text Box is to identify vegetation potential and concerns which may need to be managed for such as leader weevil or rust.

List the vegetation species expected to become competition to the crop species.

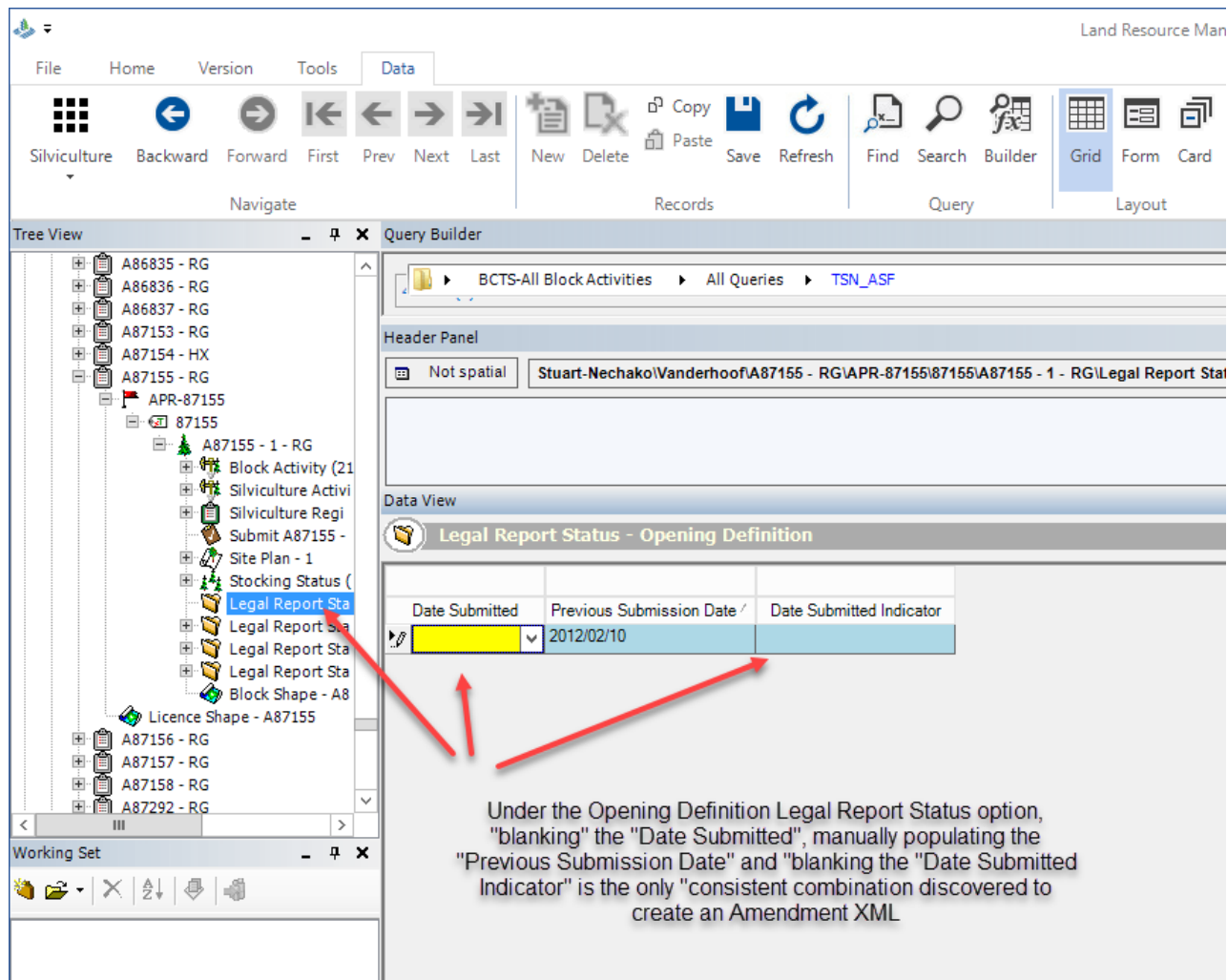
Surveys:

Set the 'area' for each of the monitoring surveys from Regen Delay to Free Growing by inserting a record on the **Survey Units** tab for each Stratum. As described in the WTRA VRI survey

Step 25: Amendments

SP amendment information is entered and then documented on the Site Plan **Admin Tab**. Postharvest/**RESULTS** reported blocks also require Amendments in the **RESULTS** application. The changes to **RESULTS** must not be done directly in **RESULTS**. Always use **LRM "Submit"** with an XML through the Electronic Submission Format (**ESF**) to protect the data integrity of LRM. The ESF method can carry a map into RESULTS with the amendment.

Site Plan



Land Resource Man

File Home Version Tools Data

Silviculture Backward Forward First Prev Next Last New Delete Copy Paste Save Refresh Find Search Builder Grid Form Card

Navigate Records Query Layout

Tree View Query Builder

BCTS-All BlockActivities All Queries TSN_ASF

Header Panel

Not spatial Stuart-Nechako\Vanderhoof\A87155 - RG\APR-87155\87155A87155 - 1 - RG\Legal Report Sta

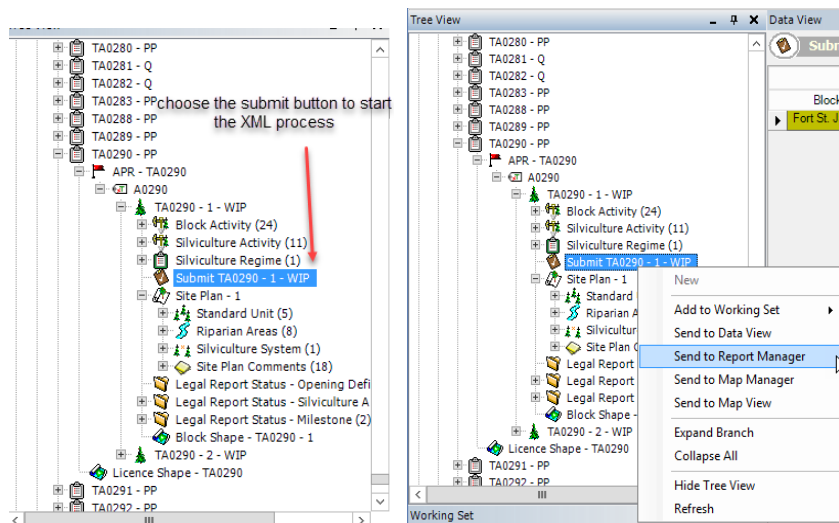
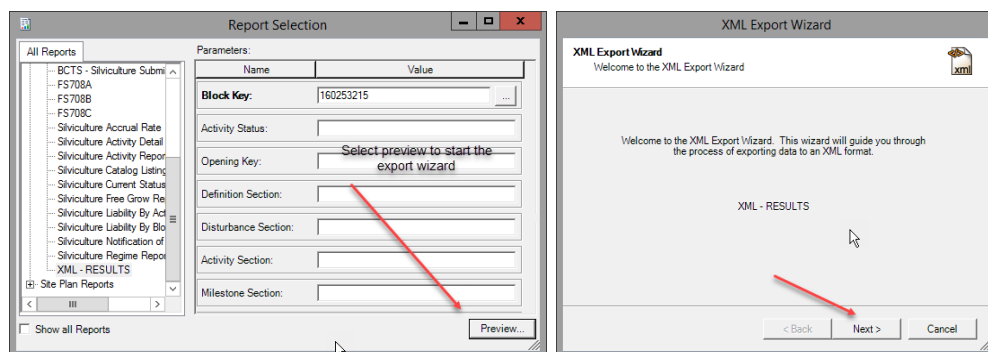
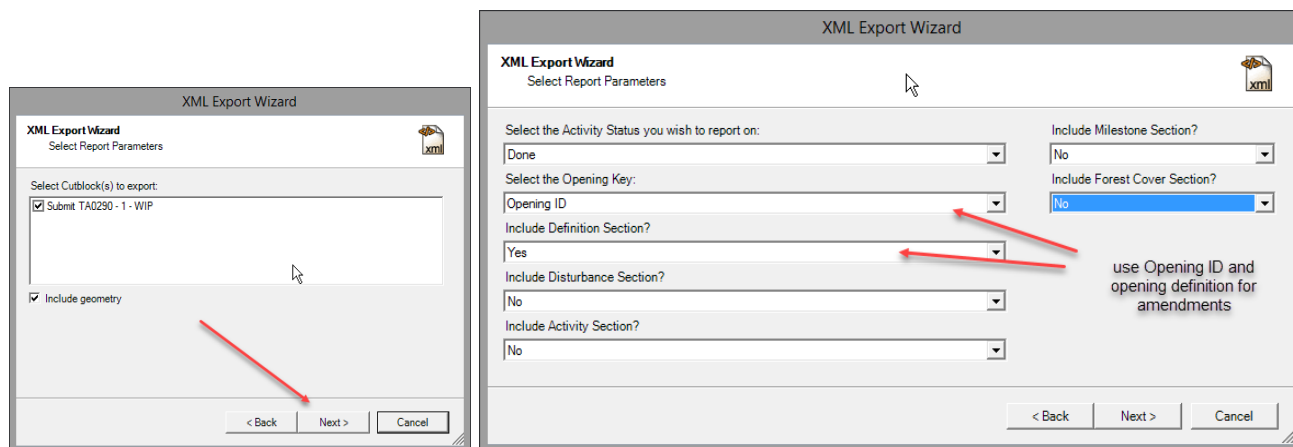
Data View

Legal Report Status - Opening Definition

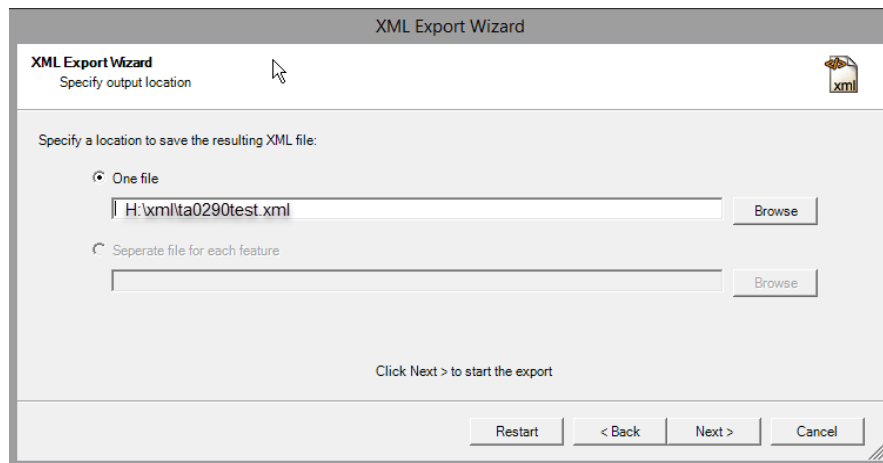
Date Submitted	Previous Submission Date /	Date Submitted Indicator
	2012/02/10	

Under the Opening Definition Legal Report Status option, "blanking" the "Date Submitted", manually populating the "Previous Submission Date" and "blanking the "Date Submitted Indicator" is the only "consistent combination discovered to create an Amendment XML

Site Plan



Site Plan



The XML Export Wizard dialog box is shown. It has a title bar 'XML Export Wizard' and a subtitle 'Specify output location'. The main area says 'Specify a location to save the resulting XML file:'. There are two radio buttons: 'One file' (selected) and 'Separate file for each feature'. The 'One file' option has a text field containing 'H:\xml\ta0290test.xml' and a 'Browse' button. The 'Separate file for each feature' option has an empty text field and a 'Browse' button. At the bottom, there is a 'Click Next > to start the export' instruction and four buttons: 'Restart', '< Back', 'Next >', and 'Cancel'.

Check that the .xml has:

```
<rst:previousStandType>MAT</rst:previousStandType>
<rst:previousSpecies1Code>Fdi</rst:previousSpecies1Code>
<rst:previousSpecies2Code>Sx</rst:previousSpecies2Code>
<rst:previousAgeClassCode>7</rst:previousAgeClassCode>
<rst:previousHeightClassCode>4</rst:previousHeightClassCode>
<rst:previousStockClassCode>1</rst:previousStockClassCode>
<rst:previousSiteIndex>18</rst:previousSiteIndex>
<rst:previousSiteIndexSource>E</rst:previousSiteIndexSource>
<rst:openingGrossArea>23</rst:openingGrossArea>
```

'sitePlanExemption' links to the **BLOCK** details window thru the **SP exempt? No** field

```
<rst:maximumAllowablePermanentAccessPercentage>8</rst:maximumAllowablePermanentAcce
<rst:sitePlanExemption>N</rst:sitePlanExemption>
<rst:openingCategoryCode>FTSBF</rst:openingCategoryCode>
<rst:openingLocationName>DJA</rst:openingLocationName>
<rst:licenseeID>160009719</rst:licenseeID>
<rst:actionCode>A</rst:actionCode>
- <rst:tenureProperty>
```

'actionCode' is 'A'
amend

If there is an error in the .xml, then correct LRM and rebuild the .xml.

To change data in the .xml, open the file using 'notepad'. Make the changes directly in the .xml. Then save, close document and resubmit.

.xml Codes for Silviculture Prescription and Site Plan Amendments



Site Plan

XML Submission Quick Reference

	XML Action	SU Audit Code	Add SU ?	Delete SU?	Completely replaces all SU's?	Restrictions	Submission Notes
Silv Presc							
Amendment (major)	A	AMD	Yes	Yes	Yes	If a Stocking Standard ID (SSID) is specified for any SU, SSID's must be provided for all SU's	All SU's must be submitted as any existing SU's not submitted will be deleted when the Amendment is approved.
Amendment (minor)	M	MIN	No	No	No	Update NAR, BEC and spatial only	Only submit SU's you wish to update. Additional information such as layers and species may be submitted but will be ignored.
Correction	U	COR	Yes	Yes	Yes	SSID, Max Soil Disturbance not updateable	All SU's must be submitted as any existing SU's not submitted will be deleted.
Update (schema v3 support)	U	MIN	No	No	No	Update NAR, BEC and spatial only	Only submit SU's you wish to update. For compatibility with schema v3.
Site Plan							
Update (schema v3 support)	U	VAR	No	No	No	SSID not updateable	Processing is identical to Approved Variation (see below). For compatibility with schema v3.
Approved Variation	V	VAR	No	No	No	SSID not updateable	Only submit SU's you wish to update.
Site Plan Amendment	A	SPA	Yes	Yes	Yes	Cannot change SU once SU declared FG. SSID Cannot be blanked out	All SU's must be submitted as any existing SU's not submitted will be deleted.



Site Plan

Silviculture Prescriptions

Amendment (Major)

Submissions for a Silviculture Prescription Major Amendment must include all SU's. Any SU's omitted from the submission **will be deleted** when the Amendment is approved. In addition, SU's may be added through this action. Submission information is not audited until the Amendment is approved, at which time modifications will be audited under the "Amended (Major)" (AMD) action.

Amendment (Minor)

Submissions for a Silviculture Prescription Minor Amendment may include only those SU's being updated. Any SU's omitted from the submission will NOT be deleted and SU's may not be added through this action. Only BEC (BGC Zone/Subzone/Variant/Phase/Site Series/Site Type/Seral), NAR (Net Area to be Reforested) and spatial information will be updated; any other SU information will be ignored. All SU modifications are audited under the "Amended (Minor)" (MIN) action.

Correction

If a Silviculture Prescription is submitted with an action of Update, and includes information other than BEC, NAR and spatial, or a new SU is submitted, the submission is considered a Correction. Any SU's omitted from the submission will be deleted and any new SU's submitted will be added. SSID and Max Soil Disturbance are not updateable. All SU modifications are audited under the "Correction" (COR) action.

Update

The Silviculture Prescription Update submission is included for backward compatibility with v3 of the schema only and processing is identical to Amendment (Minor). This submission may include only those SU's being updated. If new SU's are submitted the Update will be considered a Correction. Any SU's omitted from the submission will NOT be deleted. Only BEC (BGC Zone/Subzone/Variant/Phase/Site Series/Site Type/Seral), NAR (Net Area to be Reforested) and spatial information will be updated; if any additional information is submitted, the submission will be considered a Correction. All SU modifications are audited under the "Amended (Minor)" (MIN) action.

Site Plans

Update

The Site Plan Update submission is included for backward compatibility with v3 of the schema only. Processing is the same as Approved Variation (see below).

Approved Variation

Submissions for a Site Plan Approved Variation may include only those SU's being updated. Any SU's omitted from the submission will NOT be deleted and SU's may not be added through this action. All data, including Layers and Species, must be included in the SU submission. All SU modifications are audited under the "Variation" (VAR) action.

Site Plan Amendment

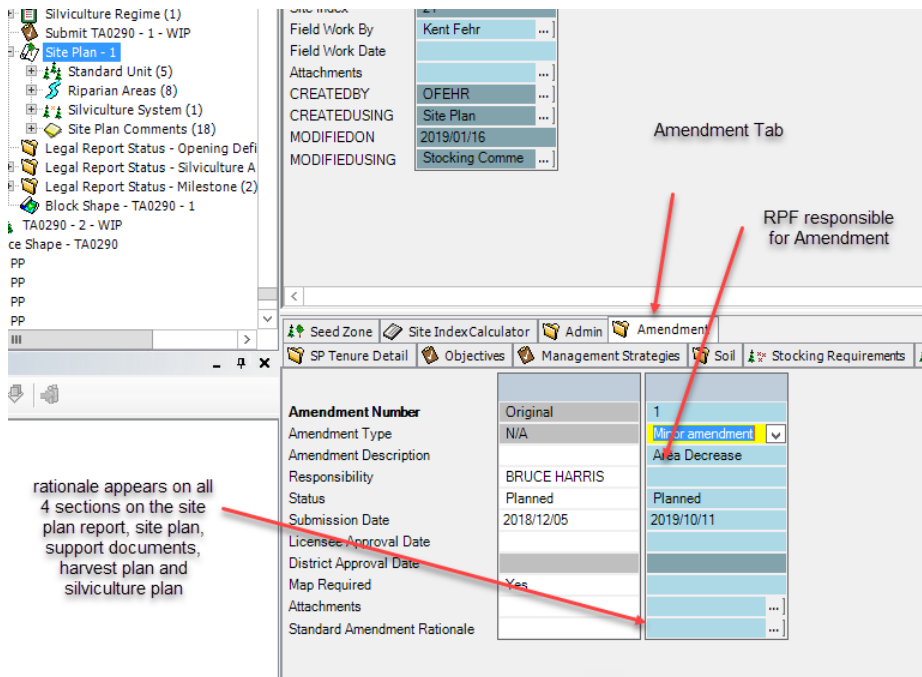
Submissions for a Site Plan Amendment must include all SU's. Any SU's omitted from the submission **will be deleted** immediately upon successful submission and any new SU's submitted will be added. SSID must be specified for all SU's and the existing SSID cannot be changed if the SU has been declared Free Growing. All SU modifications are audited under the "Site Plan Amendment" (SPA) action.

Site Plan

Amendment Tracking

Amendments are recorded in:

1. the **Site Plan** window **Admin Tab**;
2. **RESULTS**



Amendment Tab

RPF responsible for Amendment

rationale appears on all 4 sections on the site plan report, site plan, support documents, harvest plan and silviculture plan

Amendment Number	Original	1
Amendment Type	N/A	Minor amendment
Amendment Description		Area Decrease
Responsibility	BRUCE HARRIS	
Status	Planned	Planned
Submission Date	2018/12/05	2019/10/11
Licensee Approval Date		
District Approval Date		
Map Required	Yes	
Attachments		
Standard Amendment Rationale		

Site Plan window – Admin tab

Enter **Amendment Number, Type, Description, Responsibility, Status, Submission Date, Licensee Approval Date, and District Approval Date** as appropriate depending minor/major Silviculture Prescription or Site Plan.

Enter **Amendment Comments** (Main admin tab).

In the Site Plan Amendment Comments text box include the name of the forester who prepared the amendment and indicate the amendment number the comments refer to, since there may be multiple amendments. These currently do not appear on any part of the site plan reports but show on the Silviculture amendment report.

Ensure Block ID, and Silv Prescription or Code Site Plan are selected. **Save.**

Note the Name of the prescribing forester so that name can be reset to the original person.

- Replace the name with that of the amending forester for the generating and printing of a paper copy of an amendment for the paper file and an amendment submission to RESULTS.

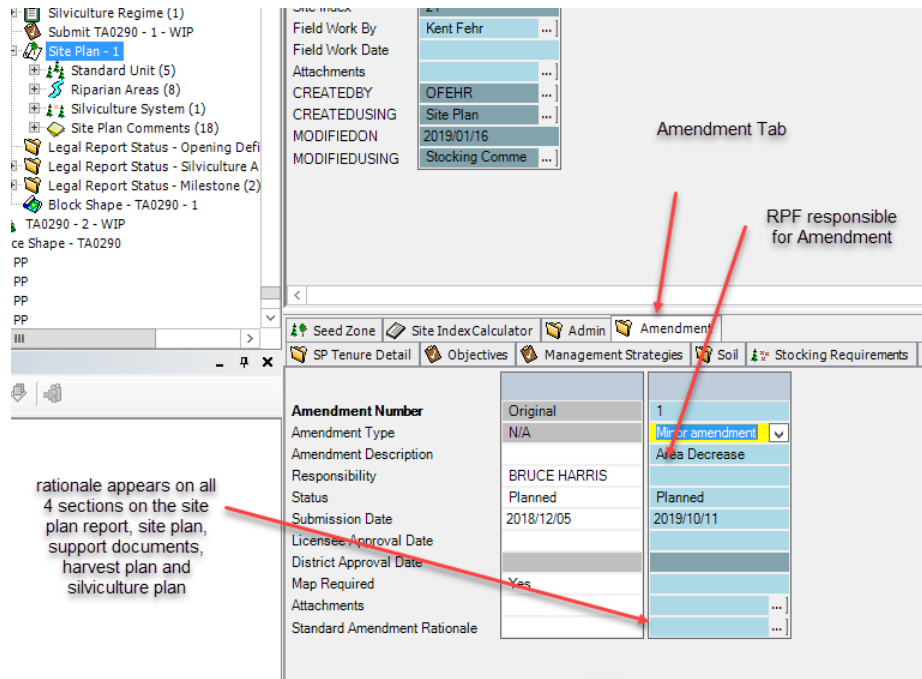
Save.

Confirm in RESULTS that your amendments actually appear as you expect them to.

Site Plan

Amendment Tracking Report

The **User-Defined** report to track amendments submitted to **RESULTS**. The report relies on the data entered on the Site Plan Admin Tab and the Block Window Amendment Tab.

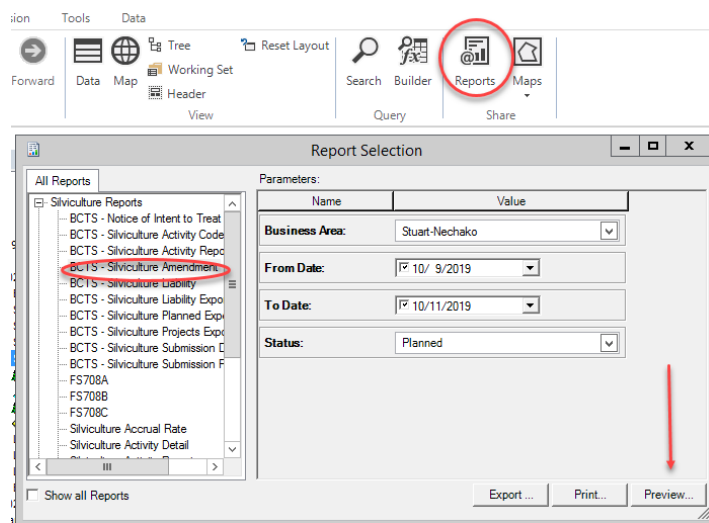


Amendment Tab

RPF responsible for Amendment

rationale appears on all 4 sections on the site plan report, site plan, support documents, harvest plan and silviculture plan

Amendment Number	Original	1
Amendment Type	N/A	Minor amendment
Amendment Description		Area Decrease
Responsibility	BRUCE HARRIS	
Status	Planned	Planned
Submission Date	2018/12/05	2019/10/11
License Approval Date		
District Approval Date		
Map Required	Yes	
Attachments		
Standard Amendment Rationale		



ion Tools Data

Forward Data Map Working Set View

Search Builder Reports Maps Query Share

Report Selection

All Reports

- BCTS - Notice of Intent to Treat
- BCTS - Silviculture Activity Code
- BCTS - Silviculture Activity Report
- BCTS - Silviculture Amendment**
- BCTS - Silviculture Liability
- BCTS - Silviculture Liability Exposure
- BCTS - Silviculture Planned Exposure
- BCTS - Silviculture Projects Exposure
- BCTS - Silviculture Submission
- BCTS - Silviculture Submission Form
- FS708A
- FS708B
- FS708C
- Silviculture Accrual Rate
- Silviculture Activity Detail

Parameters:

Name	Value
Business Area:	Stuart-Nechako
From Date:	10/9/2019
To Date:	10/11/2019
Status:	Planned

Show all Reports

Export... Print... Preview...

Choose the User Defined Report category and Report Name as shown.

Enter data selections:

'Click' either of the 3 report output types



Site Plan

BCTS - Silviculture Amendment

SAP CRYSTAL REPORTS*

Main Report

BCTS
BC Timber Sales

SILVICULTURE AMENDMENT REPORT

From Date: 2016/08/01 To Date: 2016/11/09

Report Date: 2016/11/09

Management Unit	Licence	Permit	Block	Opening	Amendment Number	Amendment Type	Responsibility	Status	Submission Date	Map Req'd?
Amendment Description										
InonBCAS	FF1		93J081-056	93J081-56	Original	N/A	CAITLIN HARRISON	Approved	2016/11/01	Yes
Fort St. James	A88/99	1		093N026-019	1	Site Plan Amendment	SUSAN SALOKANNEL	Approved	2016/08/18	Yes

Amendment 1 prepared by S. Salokannel BScF, RPF3807. The area changes are due to an update of post-harvest GPS road data. The block was not able to be harvested using the original road layout so that an alternate road system was required. The area of permanent access is increased from 6.5 to 7.36 hectares and is within the maximum proportion of total area allowed for permanent access. The area of SU1 is decreased from 62.7 to 62.5 hectares. The area of SU2 remains the same. The area of SU3 is decreased from 67.1 to 66.43 hectares. The area in WTRA remains unchanged. Any differences between RESULTS, the Opening File Site Plan and map, and the above areas are due to RESOURCES' differences in rounding rules.
The opening number as assigned by RESULTS is added.

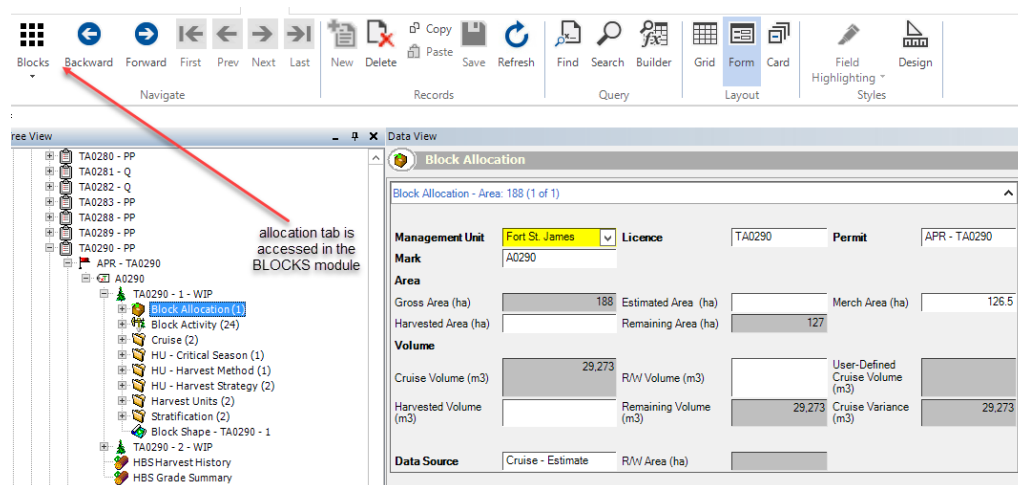
Comments:

Current Page No.: 1 Total Page No.: 5 Zoom Factor: 100%

The report will list amendment details for the specified time period.

Site Plan

Area amendments often require checking the Allocation Tab and Soils Tab information.



allocation tab is accessed in the BLOCKS module

Block Allocation - Area: 188 (1 of 1)			
Management Unit	Fort St. James	Licence	TA0290
Mark	A0290	Permit	APR - TA0290
Area			
Gross Area (ha)	188	Estimated Area (ha)	Merch Area (ha) 126.5
Harvested Area (ha)		Remaining Area (ha)	127
Volume			
Cruise Volume (m3)	29,273	R/W Volume (m3)	User-Defined Cruise Volume (m3)
Harvested Volume (m3)		Remaining Volume (m3)	29,273
		Cruise Variance (m3)	29,273
Data Source	Cruise - Estimate	R/W Area (ha)	

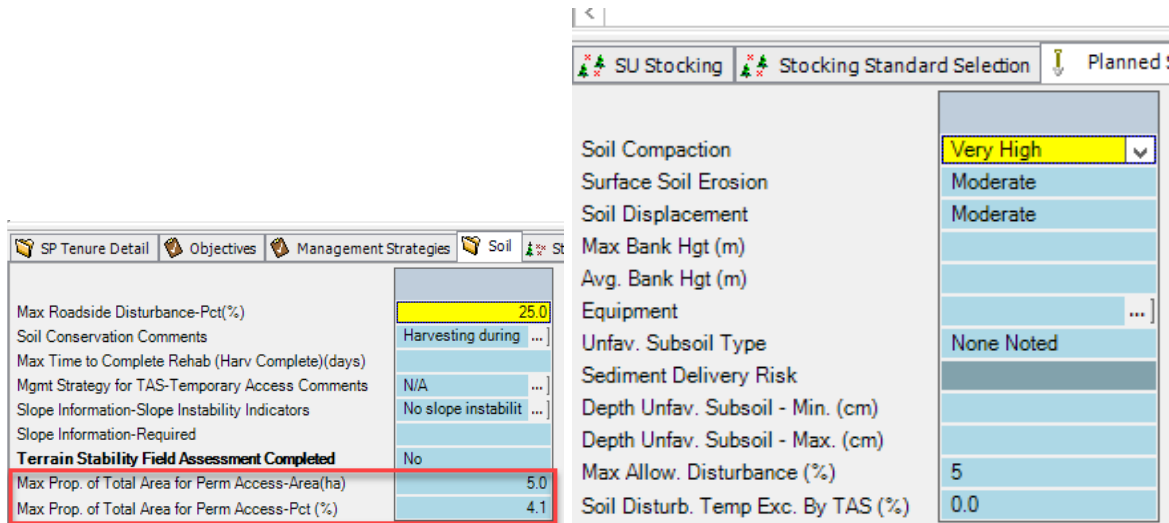
Allocation Tab –
If the update, correction or amendment changes areas, ensure that the areas on the allocation tab are correct/updated also.

If the areas are greyed out, the logging complete status to 'Planned', make the edits and change the activity status back to 'Done'.

The 'merch area' is also determined by the stratification tab being correctly populated. Check the Stratification Tab before doing a 'manual' edit. Seek assistance from our GIS support if needed. Merch Area is defined as having 'merchantable timber' prior to harvesting. Typically this is Gross Area = NAR (Productive ground being reforested) + PAS (Permanently degraded area by roads) + NonMerch (reserves, swamps, NP). Occasionally, a PHA (Previously Harvested Area, Snip and Skid) will be included within the block boundaries and included in the NAR. These areas should be addressed as per **STEP 8**.

Soil Tab: If area in PAS has changed, ensure that the information in the **soil tab** still reflects the intent on the Site Plan.

Site Plan



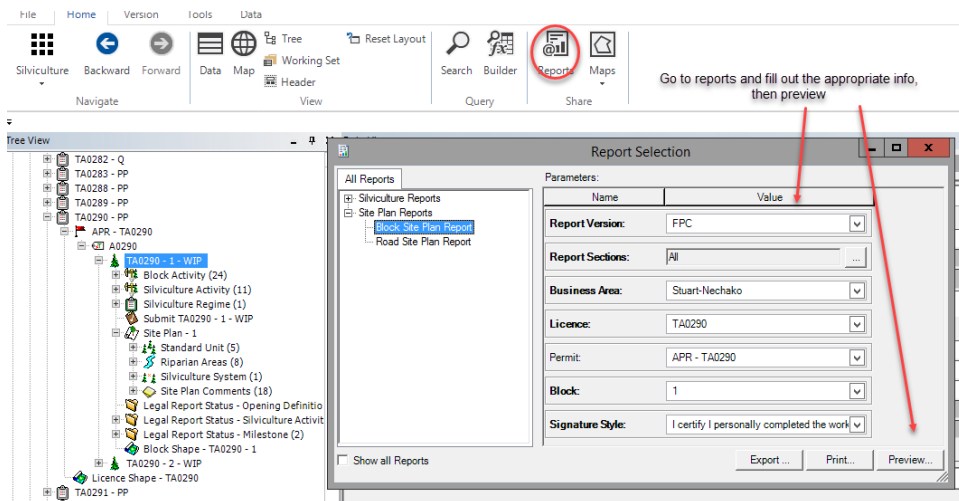
The screenshot shows the 'Soil' tab in the Land Resource Manager software. The 'Stocking Standard Selection' dropdown is open, showing a list of standards. The 'Very High' standard is selected. The 'Soil' tab displays various parameters and their values:

Parameter	Value
Max Roadside Disturbance-Pct(%)	25.0
Soil Conservation Comments	Harvesting during ...
Max Time to Complete Rehab (Harv Complete)(days)	N/A
Mgmt Strategy for TAS-Temporary Access Comments	No slope instabil ...
Slope Information-Slope Instability Indicators	No
Slope Information-Required	No
Terrain Stability Field Assessment Completed	No
Max Prop. of Total Area for Perm Access-Area(ha)	5.0
Max Prop. of Total Area for Perm Access-Pct (%)	4.1

RESULTS Amendment/Correction/Update Document or process amendment in RESULTS and, if it is a major amendment, submit for approval. Always follow through with changes in LRM and submit electronically through ESF to RESULTS to protect the data integrity of our data system. Then check that the changes in RESULTS appear as you expect them to be documented.

Step 26: Create Paper Report of Amendment

Place on legal side of Opening File



The screenshot shows the 'Report Selection' dialog box in the Land Resource Manager software. The 'Report Selection' dialog box is open, showing a list of reports. The 'Block Site Plan Report' is selected. The 'Parameters' section shows the following values:

Parameter	Value
Report Version:	FPC
Report Sections:	All
Business Area:	Stuart-Nechako
Licence:	TA0290
Permit:	APR - TA0290
Block:	1
Signature Style:	I certify I personally completed the work

To generate a paper report - Go to **Reports – Silviculture - Site Plan**

Select the **"Preview"** button to check information

Select the **"Print"** button for a paper copy

Select the **"Export Report"** button for an electronic PDF and to print



User Guide – Land Resource Manager 5.2.0.121 TM.

Site Plan

Postharvest Amendments can be submitted to RESULTS with a generated XML using LRM through ESF to **RESULTS**.



User Guide – Land Resource Manager 5.2.0.121™.

Site Plan

Appendix 1: Guide to Field data entry

Site Plan with fields filled in with data sources from G Drive.
Users should check source document on G drive to ensure currency.

G:\BCTS\Operations\LRM Resources\!Local LRM Userguides



Site Plan



SITE PLAN STUART-NECHAKO BC TIMBER SALES

Template is only a guide with wording to meet the requirements required by legislation, FSP and SFMP.

[LRM Planning Module Block Site Plan Report]

red text – recommended content

Version: Mar 2023

green text – guidance or prompts

blue text – example/suggested content

orange text – LRM data field location

TENURE IDENTIFICATION

LICENCE #	CP	BLOCK	UBI	OPENING NUMBER	FDU	LOCATION	LATITUDE / LONGITUDE

AREA UNDER THE PLAN

GROSS AREA (TAUP)	PAS	NP	WTP	RESERVES	OTHER	NAR

ADDITIONAL COMMENTS

Comments	Site Plan > Site Plan
Comments (SPTEN / COM)	
This Site Plan is consistent with the BCTS [Fort St James or Vanderhoof] Stewardship Plan, 2022 Replacement.	
Wildlife/Endangered Species	Site Plan > Site Plan
Comments (SPTEN / WES)	
<p>Migratory Birds: The BCTS Migratory Bird Strategy indicates that this block contains [very low, low, moderate, moderately high, high, very high] ranked polygons for migratory birds as supported by stand composition derived from eco-typing field work and timber cruising. As such, the following Beneficial Management Practices will be implemented to reduce the incidental take of migratory birds:</p> <p>1.</p> <p>For blocks located within the 5km buffer associated with an Environmental Stewardship Initiative (ESI) Moose Phase 2 UWR polygon: ESI Moose management: The area covered by this Site Plan is entirely or partially within a buffer zone of an area identified as being important for the management of moose habitat. A Moose Management Checklist outlining considerations and implementation of Moose Best Management Practices has been completed for this block.</p> <p>Fisher:</p> <p>1. Where there is mapped Rare/Exceptionally Rare fisher habitat and:</p> <p>a. Habitat confirmed</p> <p>The BC Fisher Working Group's Fisher Habitat Tool indicates areas of rare/exceptionally rare fisher habitat within the block. Habitat features important to Fisher denning and resting have been confirmed: [select all appropriate: large and old Ac/At, trees with rust brooms, trees with cavities]. Areas identified as containing Fisher denning or resting features have been excluded from the merchantable area of this block [or detail the management: i.e. Dispersed individual trees suitable for Fisher denning or resting were identified and WTRA includes the 'x ha' of area including these features. Additional retention of individual trees in accordance with the Min, Characteristics of Leave Trees will also contribute to fisher denning or resting.], or</p> <p>b. Habitat not confirmed</p> <p>The BC Fisher Working Group's Fisher Habitat Tool indicates areas of rare/exceptionally rare fisher habitat within the block. The area has been field reviewed and Fisher denning or resting features, such as large and old Ac/At, trees with rust brooms, or trees with cavities, were not identified. As such, the area has been included in the merchantable area [or detail the management].</p> <p>2. Where there is not mapped Rare/Exceptionally Rare fisher habitat and:</p> <p>a. Habitat identified</p> <p>The BC Fisher Working Group's Fisher Habitat Tool does not indicate rare/exceptionally rare fisher habitat within the block, but habitat features important to Fisher denning and resting were identified: [select all appropriate: large and old Ac/At, trees with rust brooms, trees with cavities]. Areas identified as containing Fisher denning or resting features have been excluded from the</p>	



Site Plan

merchantable area of this block [or detail the management: i.e. Dispersed individual trees suitable for Fisher denning or resting were identified and WTRA incorporates 'x' ha of area including these features. Additional retention of individual trees in accordance with the Min, Characteristics of Leave Trees will also contribute to fisher denning or resting.], or

b. Habitat not identified

The BC Fisher Working Group's Fisher Habitat Tool does not indicate rare/exceptionally rare fisher habitat within the block. No additional areas were identified as containing Fisher denning and resting habitat (large and old Ac/At, trees with rust brooms, trees with cavities) were identified during development.

[Description of any wildlife habitat features located within or adjacent to the block and the management practices prescribed to protect/manage the features.]

Healthy immature conifer species, mature deciduous species and Douglas Fir trees shall be retained unless it is unsafe to do so, or felling is required for road building. Dispersed leave tree retention can supplement stocking, provide structural diversity, perching/nesting habitat and contribute to long-term coarse woody debris (CWD).

Application of the following will require some professional judgement (eg. subject to timber profile, harvest area opening size, harvest area diversity, etc.), but in general the desired condition is to prescribe harvest area dispersed stubbed trees.

Dispersed stubbed trees to be created during Primary Forest Activities to provide structural diversity, perching and nesting habitat.

- Where operationally feasible or stem distribution allows, target an inter-stub distance of 40 to 60 metres where emphasis is placed on retaining stubbed conifer trees > 30 cm DBH or those containing existing cavities (dispersed mature live trees can replace stub trees);
- Preference given to 'anchoring' stubbed trees close to NCB, NP and MFZ areas (not within 50 metres of adjacent stands or WTRAs); and
- Stub trees to a height possible with conventional ground-based harvesting equipment – ie. 2 to 3 metres minimum.

Wildlife Debris Piles (WDPs): A minimum of [#] WDPs need to be created during/post-harvest. The prescribed locations are shown on the Harvest Plan map. The following have been considered in determining WDP placement:

- a. Fire spread risk – WDPs located approximately 50 metres from standing timber, plantations or mainline roads while minimizing fuel continuity;
- b. WDPs used to create connectivity between the harvest boundary and internal reserves/features should be placed 30 to 50 metres apart from each other; and
- c. Where feasible, WDPs should be anchored to stubbed/reserve trees.

WDPs should be constructed of loosely layered CWD (minimal fine debris) in the pile, to the following dimensions: up to 2 metres in height, 3 to 5 metres in width and 5 to 10 metres in length. The piles should include gaps and spaces which are free of debris to create shelter for wildlife. It is preferable if some longer pieces radiate out from the WDP at an approximate 45-degree angle from the top of the pile and leading out from the pile to the adjacent forest (to provide cover in the winter and linear travel routes in the summer for small furbearers).

If any previously unidentified wildlife habitat features are encountered during Primary Forest Activities or other block activities, work in the nearby vicinity must immediately stop and the Timber Sales Manager immediately notified. Before activities can proceed, an appropriate plan to manage the discovered feature must be determined – this must include consulting relevant legislation, Best Management Practices and/or qualified experts.

Site Plan

SOIL DISTURBANCE

Site Plan > Standard Unit \ Planned Soil Disturbance		Plan \ Soil			Site
SU	Max. Allowable Soil Disturbance (%)	Max. Amount TAS May Exceed MASD Prior To Rehab (%)	Max. Allowable Soil Disturbance For Roadside Work Areas (%)	Maximum Permanent Access Structures (%)	
					[PAS/TAUP plus a small buffer to cover HP changes]
Standard Unit (Ecology)					
SU	CRITICAL SITE CONDITIONS THAT AFFECT THE TIMING OF OPERATIONS, AND HOW THEY AFFECT THE TIMING				
	<p>Harvesting during appropriate winter conditions (frozen soils and/or compressible snowpack) is required to minimize the likelihood that Max Allowable Soil Disturbance limits will be exceeded. [Note: this will result in a seasonal restriction in TSL]</p> <p>or</p> <p>Harvesting during appropriate winter conditions (frozen soils and/or compressible snowpack) or dry summer conditions is preferred to minimize the likelihood that Max Allowable Soil Disturbance limits will be exceeded. [Note: this will <u>not</u> result in a seasonal restriction in TSL]</p>				

RESULTS AND STRATEGIES

Site Plan >

Results and Strategies

FSP:	FDU:
[FSP Name]	[FDU Name]
Biodiversity Objectives	
Result or Strategy Description FSJ or VHF	5.1.2 Landscape Biodiversity Objectives for the Prince George TSA Within the BCTS FDU and the Prince George Timber Supply Area, the <i>Order – Establishing Landscape Biodiversity Objectives for the Prince George Timber Supply Area</i> (October 20, 2004), primary forest activities carried out or authorized by the Timber Sales Manager will comply with the Order.
Applies:	[YES or NO]
Applies - Yes	The harvest area included in this Site Plan is consistent with the Order.
Applies - No	If an alternate, identified in Section D of the Order, is applied, provide detailed rationale.
Result or Strategy Description FSJ	5.1.3 Non-Spatial Old Growth Objectives for Community Forest Agreement K4B Within Community Forest Agreement K4B (TFL42 Landscape Unit), the <i>Order – Establishing Provincial Non-Spatial Old Growth Objectives</i> (June 30, 2004), primary forest activities carried out or authorized by the Timber Sales Manager will comply with the Order.
Applies:	[YES or NO]
Applies - Yes	If this is applicable, additional details of how objective will be achieved are required.
Applies - No	The harvest area included in this Site Plan is outside of the applicable area for Community Forest Agreement K4B.
Result or Strategy Description FSJ or VHF	5.2.6.1 Maximum Cutblock Size FPPR 12.4 Within the BCTS FDU, primary timber harvesting carried out or authorized by the Timber Sales Manager will be consistent with the objective set by government for wildlife and biodiversity at the landscape level that are set out in section 9 of the FPPR.
Applies:	YES
Applies - Yes	The cutblock harvest area included in this Site Plan is consistent with targets identified in the Order - Establishing Landscape Biodiversity Objectives for the Prince George Timber Supply Area (October 20, 2004) in accordance with 5.1.2 of the Forest Stewardship Plan.



Site Plan

	<p>The harvest boundaries of this cutblock have been designed in consideration of legal and non-legal constraints and to follow natural boundaries (young forest edge, wetland complexes, riparian areas) and include windfirm wildlife tree retention areas representative of the variety of naturally occurring: tree species, stand structure and wildlife habitat features.</p> <p>FSJ Only: The harvest area included in this Site Plan is outside of the applicable area for Community Forest Agreement K4B. (or, if in K4B, detail consistency with 5.1.3)</p>
Result or Strategy Description FSJ or VHF	<p>5.2.6.2 Harvesting Adjacent to another Cutblock FPPR 12.4</p> <p>Within the BCTS FDU, primary timber harvesting authorized or carried out by the Timber Sales Manager will be consistent with objective set by government for wildlife and biodiversity at the landscape level that are set out in section 9 of the FPPR.</p>
Applies:	YES
Applies - Yes	<p>Harvesting associated with this Site Plan is consistent with the Order - Establishing Landscape Biodiversity Objectives for the Prince George Timber Supply Area in accordance with 5.1.2 of the Forest Stewardship Plan.</p> <p>FSJ Only: The harvest area included in this Site Plan is outside of the applicable area for Community Forest Agreement K4B. (or, if in K4B, detail consistency with 5.1.3)</p>
Result or Strategy Description FSJ	<p>5.2.7.1 Stand Level Retention FPPR 9.1</p> <p>Within the BCTS FDU, primary forest activities carried out or authorized by the Timber Sales Manager will be consistent with the objectives set by government for wildlife and biodiversity at the stand level that are set out in section 9.1 of the FPPR.</p>
Applies:	YES
Applies - Yes	<p>The Wildlife Tree Retention Areas (WTRAs) associated with this block meet or exceed the 7% minimum target applicable to the TAUP (Gross Area) of this Timber Sale Licence (TSL) and contribute to the 10% annual target set out in the approved FSP.</p> <p>The prescribed WTRAs are areas intended to retain wildlife trees for the purpose of providing wildlife habitat and assisting in the conservation of stand level biodiversity. WTRAs, designed using professional judgement and discretion, are also used to manage retention associated with riparian interfaces (often areas of high biological diversity and wildlife habitat importance) and provide protection for areas of significance (ecologically valuable plant communities, cultural heritage resources or unique stand, habitat, or wildlife values, etc.).</p> <p>Or, if the WTRA target is not 7% in accordance with subsection 3, provide rationale</p>
Result or Strategy Description VHF	<p>5.2.7.1 Wildlife Tree Retention FPPR 9.1</p> <p>Within the BCTS FDU, primary forest activities carried out or authorized by the Timber Sales Manager will be consistent with the objectives set by government for wildlife and biodiversity at the stand level that are set out in section 9.1 of the FPPR.</p>
Applies:	YES
Applies - Yes	<p>The Wildlife Tree Retention Areas (WTRAs) associated with this block meet or exceed the 7% minimum target applicable to the TAUP (Gross Area) of this Timber Sale Licence (TSL) and contribute to the 10% annual target set out in the approved FSP.</p> <p>The prescribed WTRAs are areas intended to retain wildlife trees for the purpose of providing wildlife habitat and assisting in the conservation of stand level biodiversity. WTRAs, designed using professional judgement and discretion, are also used to manage retention associated with riparian interfaces (often areas of high biological diversity and wildlife habitat importance) and provide protection for areas of significance (ecologically valuable plant communities, cultural heritage resources or unique stand, habitat, or wildlife values, etc.).</p> <p>Or, if the WTRA target is not 7% in accordance with subsection 3, provide rationale.</p>
Result or Strategy Description FSJ or VHF	<p>5.2.7.2 Wildlife Tree Retention Areas – Harvesting Restrictions FPPR 12.5</p> <p>Within the BCTS FDU, primary forest activities are not permitted within a wildlife tree retention area except in accordance with the Forest Stewardship Plan.</p>
Applies:	YES
Applies - Yes	<p>Primary forest activities are not prescribed within wildlife tree retention areas covered by this Site Plan.</p> <p>If primary forest activities are proposed within WTRA, describe the applicable circumstances.</p>
Cultural Heritage Objectives	

Site Plan

Result or Strategy Description FSJ or VHF	5.2.8 Cultural Heritage Resources FPPR 10 Within the BCTS FDU, primary forest activities carried out or authorized by the Timber Sales Manager will be consistent with the objectives set by government for cultural heritage resources that are set out in section 10 of the FPPR.
Applies:	YES
Applies - Yes	<p>BC Timber Sales shares information about proposed road and cutblock development in an information sharing process and strives to undertake meaningful consultation as set out in the Province of British Columbia consultation procedures and agreements such as the Carrier Sekani Pathway Forward 2.0 Amending Agreement #2(2022) where applicable.</p> <p>BC Timber Sales seeks further information about Cultural Heritage Resources (CHR) associated with the development areas from First Nations. Where site-specific traditional use Cultural Heritage Resources of ongoing importance are identified by BCTS, the location of the resource is recorded and shared with First Nations. Information sharing between First Nations and BCTS is also sought on an on-going basis during development, and includes discussion of potential impacts to CHR and measures utilized to mitigate impacts to CHR.</p> <p>FSJ Only:</p> <p>The block has been reviewed in consideration of the Fort St. James District Archaeological Predictive Model. As this block is located within a zone of Low Archaeological Potential and no CHR were identified during development, no further archaeological assessment is required.</p> <p>or</p> <p>The block has been reviewed in consideration of the Fort St. James District Archaeological Predictive Model. As a result of the identification of zones of [select all appropriate: Low, Moderate, Moderate to High, High] Archaeological Potential within the block, a [Archaeological Overview Assessment (AOA), Archaeological Impact Assessment (AIA) or Preliminary Field Review (PFR)] has been completed by [Contractor] in [month, year]. The Site Plan is consistent with the recommendations of this assessment. These assessments are shared with potentially affected First Nations as per the archaeological permit under which the assessment is completed.</p> <p><i>AIA example:</i> Specifically, [#] post-1846 Culturally Modified Trees (CMTs) were identified and marked in the field; these CMTs are a CHR. As recommended in the assessment, approximately [#] CMTs are to be stubbed 30 centimetres above the scar.</p> <p><i>PFR example:</i> Specifically, an Area of Potential (AOP) has been identified in the northwest corner of the block (adjacent to the wetland). As recommended in the assessment, this area has been excluded from the harvest area including an appropriate buffer to protect the area from windthrow.</p> <p>VHF Only:</p> <p>Portions of this block are located within a zone of [Moderate, Moderate to High, or High] Archaeological Potential, as assessed via the Vanderhoof District Archaeological Potential Model. An Archaeological Impact Assessment (AIA) has been undertaken by [Contractor] on [date].</p> <p><i>AIA example:</i> [No, A few, Numerous, etc] archaeological sites or Cultural Heritage Resource features were identified, assessed, and recorded. The resulting Cultural Heritage Resource information and related BCTS management direction has been forwarded to First Nations for input. Cultural Heritage Resource input [was / was not] brought forth by First Nations or any other source during the information sharing process. This Site Plan is consistent with any comments and concerns received.</p> <p>or</p> <p>This block is located within a zone of Low Archaeological Potential, as assessed via the Vanderhoof District Archaeological Potential Model. An Archaeological Impact Assessment (AIA) has not been undertaken. No Cultural Heritage Resource information has been brought forward by First Nations or any other source during the information sharing process. No Cultural Heritage Resource features were noted during the development of this block and thus no further mitigative measures are prescribed.</p> <p>Although every attempt has been made to locate and record all archaeological and CHR features associated with the block, the possibility exists that some features may have been missed. If any previously unidentified archaeological or CHR features are discovered during Primary Forest Activities or other block activities, work in the nearby vicinity must immediately stop and the Timber Sales Manager immediately notified. Before activities can proceed, an appropriate plan to manage the discovered features must be determined.</p>
Fisheries Objectives	
Result or Strategy Description FSJ or VHF	5.2.4 Fisheries Sensitive Watersheds FPPR 8.1 Within the BCTS FDU and within a Fisheries Sensitive Watershed identified in Schedule 2 of the Forest Planning and Practices Regulation, primary forest activities carried out or authorized by the Timber Sales Manager will be consistent with the objectives set by government.

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Applies:	NO
Applies - No	<p>Within the Stuart Nechako Forest District, no Fisheries Sensitive Watersheds were identified in Schedule 2 of the FPPR.</p> <p>FSJ Only: Fisheries Sensitive Watersheds have since been established by regulation and are addressed in section 5.3.3 of the Forest Stewardship Plan and this Site Plan.</p> <p>VHF Only: Within the Vanderhoof FDU, no Fisheries Sensitive Watersheds have since been established by regulation.</p>
Result or Strategy Description FSJ	<p>5.3.3 Fisheries Sensitive Watersheds GAR 14(1) and 14(2)</p> <p>Within the BCTS FDU and within the applicable area of the <i>Order – Fisheries Sensitive Watershed Fort St. James Forest District</i> (March 12, 2018), primary forest activities carried out or authorized by the Timber Sales Manager will be consistent with the objectives set out in the Order.</p>
Applies:	[YES or NO]
Applies - Yes	<p><i>If all or a portion of the harvest area (or access road) is located within Fisheries Sensitive Watersheds (FSW's) F-7-006, F-7-007, F-7-008, F-7-010, F-7-011, F-7-012 or F-7-013 specific wording will be required to ensure consistency with the results and strategies pertinent to FSW.</i></p> <p>Additionally, the Erosion and Sediment Control Checklist must be completed for blocks/roads in a FSW.</p>
Applies - No	The harvest area and associated access included in this Site Plan are not located within a Fisheries Sensitive Watershed designated under the Order.
Recreation Objectives	
Result or Strategy Description FSJ	<p>5.4.2 Recreation Designations FRPA 180-181</p> <p>Within the BCTS FDU and where the Timber Sales Manager carries out or authorizes primary forest activities within or immediately adjacent to an established recreation site, recreation trail or interpretive forest site, the primary forest activities will be consistent with the <i>Order to Establish Objectives for a Recreation Site, Recreation Trail or Interpretive Forest Site</i> (Ministry of Forests, January 2, 2001) as grand parented under FRPA section 181.</p>
Applies:	[YES or NO]
Applies - Yes	The harvest area included in this Site Plan is within 200 metres of [name of Recreation Site, Recreation Trail, or Interpretive Trail] and was determined according to the requirements identified in the approved Forest Stewardship Plan and authorized by the District Manager.
Applies - No	The harvest area included in this Site Plan is not within 200 metres of a designated Recreation Site, Recreation Trail, or Interpretive Trail.
Resource Feature Objectives	
Result or Strategy Description FSJ or VHF	<p>5.1.1 Agriculture Development and Settlement Reserve Areas</p> <p>Within the BCTS FDU and an Agricultural Development Area or Settlement Reserve Area as specified in the <i>Order of the Minister of Agriculture and Lands – Establishing Land Use Objectives under section 93.4 of the Land Act for the Purposes of the Forest and Range Practices Act</i> (Nov 21, 2006), primary forest activities carried out or authorized by the Timber Sales Manager will comply with the Order.</p>
Applies:	[YES or NO]
Applies - Yes	The harvest area included in this Site Plan is located within an [Agriculture Development or Settlement Reserve] Area and is consistent with the conditions and practices identified in Part A/B/C/E – expand.
Applies - No	The harvest area included in this Site Plan is outside of Agriculture Development Areas and Settlement Reserve Areas.
Riparian Objectives	
Result or Strategy Description FSJ or VHF	<p>5.2.3 Water Fish and Biodiversity in Riparian Areas FPPR 8</p> <p>Within the BCTS FDU and where primary forest activities are carried out or authorized by the Timber Sales Manager, the primary forest activities will be consistent with the objective set by government for water, fish, wildlife and biodiversity that is set out in section 8 of the FPPR by being consistent with the practice requirements in sections 47, 48, 49 (1)(3)(4)(5), 50, 51, 52(2) and 53 of the FPPR, and sections 5.2.3.1, 5.2.3.2 and 5.3.3.3 of the FSP.</p>
Applies:	YES

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Applies - Yes	<p>Stream, lake and wetland riparian classes and associated riparian management areas, riparian reserve zones and riparian management zones have been assessed in accordance with the specified practice requirements and the Forest Stewardship Plan (FSP).</p> <p>Roads will not be constructed in a riparian management area except as required as part of a stream crossing. Where the road is constructed within a riparian management zone, road maintenance activities must not be carried out beyond the clearing width of the road, except as necessary to maintain a stream crossing. Gravel or other fill must not be removed from within a riparian management area in the process of constructing, maintaining or deactivating a road, except as allowed in section 50 of the FPPR.</p> <p>No roads are proposed within Riparian Management Areas applicable to this Site Plan (beyond that required for authorized stream crossings).</p> <p>or</p> <p>Spur [#] is located within the Riparian Management Area associated with [eg. S-A (S4 stream)] as there is no other practicable option for the road location due to topographic constraints in that portion of the block.</p>
Result or Strategy Description FSJ or VHF	<p>5.2.3.1 Lake Riparian Classes FPPR 12.3(3)</p> <p>Within the BCTS FDU and where the Timber Sales Manager carries out or authorizes primary forest activities and in respect of lakes, riparian classes and associated riparian management areas, riparian reserve zones and riparian management zones are set out in the Forest Stewardship Plan (FSP).</p>
Applies:	[YES or NO]
Applies - Yes	Lake Riparian Classes and associated riparian management areas, riparian reserve zones and riparian management zones have been assessed in accordance with the Forest Stewardship Plan (FSP) and are detailed in the Support Document.
Applies - No	The harvest area included in this Site Plan is not located within the riparian management area of a lake as set out in the Forest Stewardship Plan (FSP).
Result or Strategy Description FSJ or VHF	<p>5.2.3.2 Restrictions in Riparian Reserve Zones FPPR 12.3(5)</p> <p>Within the FDU and where the Timber Sales Manager carries out or authorizes primary forest activities, trees must not be cut, modified or removed within a Riparian Reserve Zone except in accordance with the Forest Stewardship Plan.</p>
Applies:	[YES or NO]
Applies - Yes	<p>No Primary Forest Activities are proposed within Riparian Reserve Zones applicable to this Site Plan (if applicable: beyond that required for authorized stream crossings) (if applicable, except in accordance with section 51(1) of the FPPR).</p> <p>If applicable: Cutting, modification or removal of trees within a Riparian Reserve Zone is permitted where retention of mature or immature trees within a Wildland Urban Interface area poses a significant risk to public safety or infrastructure.</p> <p>FSJ Only (if applicable): Cutting, modification or removal of trees within a Riparian Reserve Zone of a L-A or L-B lake is permitted where outside of the 10 meter portion of the reserve immediately adjacent to the lake and where fisheries and/or water values will not be negatively impacted by lakeshore soil disturbance or upslope lakeshore soil erosion associated with the activities, only if the activities are to 1) enhance recreational opportunities and/or visual quality objectives, or 2) enhance wildlife habitat and/or biodiversity values.</p> <p>VHF Only (if applicable): Cutting, modification or removal of trees within a Riparian Reserve Zone of a L-B lake is permitted where outside of the 10 meter portion of the reserve immediately adjacent to the lake and where fisheries and/or water values will not be negatively impacted by lakeshore soil disturbance or upslope lakeshore soil erosion associated with the activities, only if the activities are to 1) enhance recreational opportunities and/or visual quality objectives, or 2) enhance wildlife habitat and/or biodiversity values.</p>
Applies - No	The harvest area included in this Site Plan is not located within the Riparian Reserve Zone of a stream, lake or wetland as set out in the Forest Stewardship Plan (FSP).
Result or Strategy Description FSJ or VHF	<p>5.2.3.3 Minimum Basal Area Retention in the Riparian Management Zone FPPR 12(3)</p> <p>Within the BCTS FDU and where the Timber Sales Manager carries out or authorizes primary forest activities, the primary forest activities will be consistent with the objective set by government for water, fish, wildlife and biodiversity that is set out in section 8 of the FPPR.</p>
Applies:	[YES or NO]
Applies - Yes	Stream, Wetland and Lake Riparian Classes applicable to this block have been assessed and are detailed in the Support Document. The basal area retention in the Riparian Management Zone(s) applicable to the harvest area have been

Site Plan

	<p>determined according to windthrow hazard assessments and meets or exceeds the minimums identified in the approved Forest Stewardship Plan (FSP).</p> <p>Harvest boundaries established in this Site Plan are a minimum of 5-meters from Non-Classified Wetlands (NCW's) and Non-Classified Lakes (NCL's).</p> <p>Implementation of riparian management practices, as detailed in the Support Document attached, are intended to conserve riparian functionality, reduce risk of sedimentation (ie. water quality), maintain habitat and connectivity corridors for wildlife retain large woody debris and structural diversity and provide visual screening. The streams, wetlands or lakes that are located within, adjacent to or potentially influenced/impacted by Primary Forest Activities on this cutblock are identified in the Support Document along with the mitigative measures that will be taken to protect these riparian features. The prescribed retention is intended to ensure the retention objectives for Water, Fish, Wildlife and Biodiversity in Riparian Areas outlined in the FSP have been met and support the riparian management objectives of the Takla Forestry Stewardship Framework.</p>
Applies - No	The harvest area included in this Site Plan is not located within the Riparian Management Zone of a stream, lake or wetland as set out in the Forest Stewardship Plan (FSP).
Result or Strategy Description FSJ	<p>5.4.3 Lakeshore Classification FRPA 180</p> <p>Within the BCTS FDU and where the Timber Sales Manager carries out or authorizes primary forest activities, the lakeshore classification designations made known under section 64 of <i>Operational Planning Regulation</i> (August 11, 2000) are grand-parented under FRPA section 180.</p>
Applies:	YES
Applies - Yes	The grand-parented lake class designations are reflected in the Forest Stewardship Plan and the lake riparian class and associated riparian management areas, riparian reserve zones and riparian management zones are consistent with the Fort St James lakeshore classification designations as per Table 1 of subparagraph 5.2.3.1 of the Forest Stewardship Plan (FSP).
Soil Objectives	
Result or Strategy Description FSJ or VHF	<p>5.2.1 Soils FPPR 5</p> <p>Within the BCTS FDU, primary forest activities carried out or authorized by the Timber Sales Manager will be consistent with the practice requirements of FPPR section 35 and 36 except as specified in the Forest Stewardship Plan.</p>
Applies:	YES
Applies - Yes	<p>Soil disturbance percentages specified within this Site Plan meet the objectives set by government for Soils, as set out in FPPR, sections 35 and 36.</p> <p>Soil disturbance resulting from Primary Forest Activities not to exceed the Maximum Allowable Soil Disturbance limits (%) noted for each SU, excluding the Roadside Work Area, which has a maximum limit of 25%, <i>(include the following if applicable and provide rationale specific to the circumstance:)</i> except under the following circumstances:</p> <ul style="list-style-type: none"> (a) harvesting and land clearing activities are required to facilitate gravel extraction in a Gravel Pit Reserve, or (b) establishing a fuel break within a Wildland Urban Interface area for the protection of values such as human safety, property, and infrastructure. <p>Permanent Access Structure Limits: Building only the amount of Permanent Access Structures that are proposed will ensure that the maximum allowable of 7% will not be exceeded.</p>
Visual Quality Objectives	
Result or Strategy Description FSJ	<p>5.3.1 Scenic Areas and VQO GAR 7(1) and 7(2)</p> <p>Within the BCTS FDU and where timber harvesting or road construction is carried out or authorized by the Timber Sales Manager within a scenic area pertaining to the <i>Visual Quality Objective Order</i> (Ministry of Forests and Range, November 2, 2005), cutblocks and roads will be designed to be consistent with the Order.</p>
Applies:	[YES or NO]
Applies - Yes	All or a portion of the harvest area included in this Site Plan is within a Scenic Area possessing a Visual Quality Objective of [Maximum Modification, Modification, Partial Retention, Retention or Preservation]. A Visual Impact Assessment (VIA) was completed by [Contractor] on [date] prior to undertaking harvest boundary layout operations. The proposed block shape was subsequently [describe how the VIA influenced the block design] to meet the VQO(s). As such, the visual alteration of the landscape resulting from the harvest area included in this Site Plan is consistent with the VQO(s).
Applies - No	The harvest area included in this Site Plan is not located within a Scenic Area.

Site Plan

Result or Strategy Description VHF	5.3.2 Scenic Areas and VQO GAR 7(1) and 7(2) Within the BCTS FDU and where the Timber Sales Manager carries out or authorizes timber harvesting or road construction within a scenic area pertaining to the <i>Order – Establishment of Scenic Areas and Visual Quality Objectives within the Vanderhoof Forest District</i> (September 22, 2008), cutblocks and roads will be designed to be consistent with the Order.
Applies:	[YES or NO]
Applies - Yes	All or a portion of the harvest area included in this Site Plan is within a Scenic Area possessing a Visual Quality Objective of [Maximum Modification, Modification, Partial Retention, Retention or Preservation]. A Visual Impact Assessment (VIA) was completed by [Contractor] on [date] prior to undertaking harvest boundary layout operations. The proposed block shape was subsequently [describe how the VIA influenced the block design] to meet the VQO(s). As such, the visual alteration of the landscape resulting from the harvest area included in this Site Plan is consistent with the VQO(s).
Applies - No	The harvest area included in this Site Plan is not located within a Scenic Area.
Water Management Objectives	
Result or Strategy Description FSJ or VHF	5.2.5 Water in Community Watersheds FPPR 8.2 Within the BCTS FDU and within a Community Watershed, primary forest activities carried out or authorized by the Timber Sales Manager will be consistent with the objectives set by government.
Applies:	NO
Applies - No	No community watersheds have been designated within the Stuart Nechako Forest District.

Wildlife Objectives	
Result or Strategy Description FSJ or VHF	5.2.2.1 SAR – Northern Caribou FPPR 7 In respect of the <i>Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Species at Risk in the Fort St. James Forest District</i> or the <i>Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Survival of Species at Risk in the Vanderhoof Forest District</i> for Northern Caribou, primary forest activities carried out or authorized by the Timber Sales Manager will be consistent with strategies identified in the Forest Stewardship Plan (FSP).
Applies:	[YES or NO]
Applies - Yes	FSJ Only: All or a portion of the harvest area included in this Site Plan is within one or more spatially identified areas capable of providing Species at Risk Elements (migration corridors, calving range, or rutting range) for Northern Caribou. The harvest area has been designed and/or timing of Primary Forest Activities limited such that key habitat attributes for Northern Caribou are protected consistent with the Notice. VHF Only: The harvest area included in this Site Plan is located within the (Tweedsmuir or Itcha-Ilgachuz) Northern Caribou Population Range and (all or a portion) of the harvest area included in this Site Plan is within one or more spatially identified areas capable of providing Species at Risk Elements (calving range, rutting range, connectivity matrix, or mineral licks) for Northern Caribou. The harvest area has been designed and/or timing of Primary Forest Activities limited such that key habitat attributes for Northern Caribou are protected consistent with the Notice. Provide additional detail and supporting information
Applies - No	The harvest area included in this Site Plan is not located within a Northern Caribou Population Range.
Result or Strategy Description FSJ	5.2.2.2 Winter Survival of Northern Caribou FPPR 7 In respect of the <i>Notice – Indicators of the Amount, Distribution and Attributes of Wildlife Habitat Required for the Winter Survival of Ungulate Species in Fort St. James Forest District Within the Prince George Timber Supply Area</i> for Northern Caribou and Mountain Goat, primary forest activities carried out or authorized by the Timber Sales Manager will be consistent with the Forest Stewardship Plan (FSP).
Applies:	[YES or NO]
Applies - Yes	If all or a portion of the harvest area is located within the applicable areas of the Notice listed above, site specific wording will be required.
Applies - No	The harvest area included in this Site Plan is not within the High or Medium Value areas of High Elevation Winter Range or the Low Elevation Pine-Lichen Ungulate Winter Range areas as specified in the Notice.

Site Plan

Result or Strategy Description VHF	5.3.1 Northern Caribou Ungulate Winter Range #U-7-012 GAR 9(2) and 12(1) Within Northern Caribou ungulate winter range polygons as specified in the <i>Order – Ungulate Winter Range #U-7-012</i> (December 30, 2005), primary forest activities carried out or authorized by the Timber Sales Manager will be consistent with the General Wildlife Measures specified in the Order.
Applies:	[YES or NO]
Applies - Yes	<i>If all or a portion of the harvest area is located within the applicable areas of the Notice listed above, site specific wording will be required to ensure compliance with applicable General Wildlife Measures.</i>
Applies - No	The harvest area included in this Site Plan is not located within the applicable areas of the Order.
Result or Strategy Description FSJ	5.3.2.1 Ungulate Winter Range #U-7-003 Mountain Caribou Within the applicable areas of the <i>Order – Ungulate Winter Range #U-7-003 Mountain – Upper Fraser, Hart Ranges and Mount Robson Planning Units</i> (Ministry of Environment, December 9, 2009), the Timber Sales Manager will comply with the General Wildlife Measures specified in the Order.
Applies:	[YES or NO]
Applies - Yes	<i>If all or a portion of the harvest area is located within the applicable area of the Order listed above, specific wording will be required to ensure compliance with applicable General Wildlife Measures.</i>
Applies - No	The harvest area included in this Site Plan is not located within the applicable areas of the Order.
Result or Strategy Description FSJ	5.3.2.2 Wildlife Habitat Areas for Caribou 7-016, 7-019 to 7-022, 7-024 to 7-044 and 7-061 Within the applicable areas of the <i>Order – Establishing Wildlife Habitat Areas (WHAs) 7-016, 7-019 to 7-022, 7-024 to 7-044 and 7-061 in the Stuart Nechako Forest District</i> (Ministry of Forests, Lands, Natural Resource Operations and Rural Development, July 21, 2021), the Timber Sales Manager will comply with the General Wildlife Measures specified in the Order.
Applies:	[YES or NO]
Applies - Yes	<i>If all or a portion of the harvest area is located within the applicable area of the Order listed above, specific wording will be required to ensure compliance with applicable General Wildlife Measures.</i>
Applies - No	The harvest area included in this Site Plan is not located within the applicable areas of the Order.
Result or Strategy Description FSJ	5.3.2.3 Ungulate Winter Range #U-7-0019 Mountain Goat Within the applicable areas of the <i>Order – Ungulate Winter Range #U-7-019 Mountain Goat – Fort St. James Forest District</i> (Ministry of Environment, May 31, 2010), the Timber Sales Manager will comply with the General Wildlife Measures specified in the Order.
Applies:	[YES or NO]
Applies - Yes	<i>If all or a portion of the harvest area is located within the applicable area of the Order listed above, specific wording will be required to ensure compliance with applicable General Wildlife Measures.</i>
Applies - No	The harvest area included in this Site Plan is not located within the applicable areas of the Order.
Result or Strategy Description FSJ	5.3.2.4 High Elevation Ungulate Winter Range U-7-026 Northern Caribou Within the applicable areas of the <i>Order – Northern Caribou High Elevation Ungulate Winter Range U-7-026 – Fort St. James Forest District</i> (Ministry of Forests, Lands and Natural Resource Operations, May 24, 2016), the Timber Sales Manager will comply with the General Wildlife Measures in specified in the Order.
Applies:	[YES or NO]
Applies - Yes	<i>If all or a portion of the harvest area is located within the applicable area of the Order listed above, specific wording will be required to ensure compliance with applicable General Wildlife Measures.</i>
Applies - No	The harvest area included in this Site Plan is not located within the applicable areas of the Order.
Result or Strategy Description FSJ	5.3.2.5 Ungulate Winter Range #U-7-018 and U-7-020 Moose Within the applicable areas of the <i>Order – Moose Ungulate Winter Range U-7-018 and U-7-020 in the Stuart Nechako Forest District</i> (Ministry of Forests, Lands and Natural Resource Operations and Rural Development, March 30, 2022), the Timber Sales Manager will comply with the General Wildlife Measures specified in the Order.

Site Plan

Applies:	[YES or NO]
Applies - Yes	<i>If all or a portion of the harvest area is located within one or more of the applicable areas of the Orders listed above, specific wording will be required to ensure compliance with applicable General Wildlife Measures.</i>
Applies - No	The harvest area included in this Site Plan is not located within the applicable areas of the Order.
Result or Strategy Description VHF	5.3.3 Ungulate Winter Range #U-7-018 and U-7-020 Moose GAR 9(2) & 12(1) & 12(2) Within the applicable areas of the Order – <i>Moose Ungulate Winter Range U-7-018 and U-7-020 in the Stuart Nechako Forest District</i> (Ministry of Forests, Lands and Natural Resource Operations and Rural Development, March 30, 2022), activities carried out or authorized by the Timber Sales Manager will comply with the General Wildlife Measures specified in the Order.
Applies:	[YES or NO]
Applies - Yes	<i>If all or a portion of the harvest area is located within one or more of the applicable areas of the Orders listed above, specific wording will be required to ensure compliance with applicable General Wildlife Measures.</i>
Applies - No	The harvest area included in this Site Plan is not located within the applicable areas of the Order.
Result or Strategy Description FSJ or VHF	5.4.1 Mule Deer Designations FRPA 180-181 Within the BCTS FDU and where primary forest activities are carried out or authorized by the Timber Sales Manager within a mule deer winter range polygon as specified in the Order – <i>Ungulate Winter Range #U7-002</i> (Ministry of Water Land and Air Protection, June 19, 2003) or the Order – <i>Ungulate Winter Range #U7-011</i> (Ministry of Water Land and Air Protection, October 6, 2003), the primary forest activities will be consistent with the Order as grand parented under FRPA section 181.
Applies:	[YES or NO]
Applies - Yes	<i>If all or a portion of the harvest area is located within the applicable area of the Order listed above, specific wording will be required.</i>
Applies - No	The harvest area included in this Site Plan is not located within the applicable areas of the Order.
MEASURES	
Measure Description FSJ or VHF	6.1 Invasive Plant Measure FPPR 17 Within the FDU and where the Timber Sales Manager carries out or authorizes primary forest activities, measures identified in the Forest Stewardship Plan for the purposes of FRPA section 47 will be undertaken.
Applies:	[YES or NO]
Applies - Yes	All or a portion of the harvest area included in this Site Plan is located within an area where the spread of invasive plants poses an extremely high risk. Areas of disturbed soils within the harvest area 0.25 hectares or greater which are located within 5 km of highly susceptible areas (such as seed or other high-value agricultural crops and private land), that will not be reforested, must be seeded with grass and legumes within 6 months of completing Primary Forest Activities. These sites must be monitored following seeding and re-seeded within one year of inspection as per the Forest Stewardship Plan measure. <i>or</i> All or a portion of the harvest area included in this Site Plan is located within an area where the spread of invasive plants poses a high risk. Areas of disturbed soils within the harvest area 0.5 hectares or greater which are within 5 km of a site identified as containing extremely or very invasive plants (as described by the Northwest Invasive Plant Committee), that will not be reforested, must be seeded with grass and legumes within 1 year of completing Primary Forest Activities. These sites must be monitored following seeding and re-seeded within one year of inspection as per the Forest Stewardship Plan measure. <i>or</i> All or a portion of the harvest area included in this Site Plan is located within an area where the spread of invasive plants poses a moderate risk. Areas of disturbed soils within the harvest area 0.5 hectares or greater which are within 5 km of a site identified as containing invasive or aggressive invasive plants (as described by the Northwest Invasive Plant Committee), that will not be reforested, must be seeded with grass and legumes within 2 years of completing Primary Forest Activities. These sites must be monitored following seeding and re-seeded within one year of inspection as per the Forest Stewardship Plan measure.
Applies - No	The harvest area included in this Site Plan is not located within an area where the spread of invasive plants poses an extremely high, high, or moderate risk. No further mitigative measures are required.



Site Plan

Measure Description FSJ or VHF	6.2 Range Barrier Measure FPPR 18 Within the BCTS FDU and where the Timber Sales Manager carries out or authorizes primary forest activities, the measures identified in the Forest Stewardship Plan for the purposes of FRPA section 48 will be undertaken.
Applies:	[YES or NO]
Applies - Yes	<p>All or a portion of the harvest area included in this Site Plan is located within the [Range Tenure type held by <i>Range Tenure holder name</i>]. The tenure holder has not identified the removal of natural range barriers through the harvest of this block. No further mitigative measures are required.</p> <p>or</p> <p>All or a portion of the harvest area included in this Site Plan is located within the [Range Tenure type held by <i>Range Tenure holder name</i>]. The tenure holder has satisfactorily demonstrated that the harvest of this block will remove a natural range barrier. As such, BCTS will mitigate the effects by constructing/installing an artificial range barrier. Installation of a cattle guard and associated wing fencing on either side of the access into the block will occur prior to [date] as mutually agreed to by BCTS and the Range Tenure holder.</p> <p><i>[If applicable, describe any additional management practices prescribed to accommodate range tenure.]</i></p>
Applies - No	The harvest area included in this Site Plan is not located within a Range Tenure area.



Site Plan

STOCKING REQUIREMENTS

Site Plan > Standards

Unit \ SU Stocking

SU	NAR	STANDARDS ID #	OTHER PERFORMANCE STANDARDS
			<i>[Review and verify default stocking standards variances (general and species specific) ensuring applicability is substantiated or remove any not applicable.]</i>
			<p>NAR located within a Conditional Harvest Area of the Omineca Moose UWR Order needs to include:</p> <p>To promote stand heterogeneity by using a diversity of tree species:</p> <ol style="list-style-type: none"> 1) A mixture of preferred and acceptable tree species identified in the approved stocking standard will be planted within the Net Area to Reforest (NAR). 2) Further to subsection 1, the total number of well-spaced stems will be consistent with the TSS and MSSp, but the stocking standard targets for preferred well-spaced stems will include both the preferred and acceptable tree species (ie. the MSSp shall include both the listed preferred and acceptable species). 3) No more than 60% of any single tree species will be planted within the NAR. 4) In site-specific instances where forest health pathogens present on the site restrict the ecologically suitable species that can be planted, a written rationale will document the limiting forest health criteria and steps taken to promote species diversity and maintain or enhance moose habitat. 5) Where healthy contiguous and mappable deciduous types more than two (2.0) hectares are identified (through silviculture surveys) in the NAR and found to be out-competing target coniferous stems, their area and location will be delineated. An exemption from the requirement to achieve a Free-Growing stand will be sought for the area comprising these deciduous types. If approved, the area will be removed from the NAR for the purpose of enhancing moose habitat.
COMMENTS			

ADMINISTRATION

Site Plan \

Admin & Amendment

Amendment number	Date Typed (Yr Mo Dy)	Map Required?
ORIGINAL		YES

RPF PRINTED NAME	RPF'S SIGNATURE and SEAL
DATE SIGNED	
<i>[Include appropriate professional certification statement.]</i>	

Map attached forms an integral part of the site plan.



Site Plan

THE FOLLOWING INFORMATION IS ATTACHED FOR INFORMATION ONLY AND DOES NOT FORM PART OF THE SITE PLAN

SUPPORT DOCUMENT

LICENCE #	CP	BLOCK	UBI	OPENING NUMBER	FDU	LOCATION	LATITUDE / LONGITUDE

ASSESSMENTS

VISUAL IMPACT ASSESSMENT INFORMATION (Visual Landscape)	Site Plan \ Objectives
Refer to the R&S in the Site Plan. Include additional comments from the VIA not covered by the R&S that provide supporting information.	
PEST INCIDENCE SURVEY INFORMATION Strategies (Forest Health)	Site Plan \ Management
Pest Specific Comments	
The cruise indicates the following insect incidence within the timber types included in this block: [details from the cruise] or some other text providing a general overview of any pests identified within the block.	
Forest Health Comments	
A formal pest incidence survey [was/was not] required/completed. Include wording specific to any forest health factors that influenced the layout/inclusion of areas to be harvested.	
ARCHAEOLOGICAL IMPACT ASSESSMENT INFORMATION (Archaeological Sites)	Site Plan \ Management Strategies
Refer to the R&S in the Site Plan. Include additional comments from the AIA or PFR not covered by the R&S that provide supporting information.	
TERRAIN STABILITY FIELD AND GULLY ASSESSMENTS INFORMATION	
Terrain Stability Comments (Slope Information)	Site Plan \ Soil
No slope instability indicators were noted within or adjacent to the harvest area boundary. No special actions are required. or A Terrain Stability Field Assessment (TSFA) was completed by [Contractor] on [date]. [Include a description of the TSFA findings and prescribed management practices.]	
Gully Comments Strategies (Gully)	Site Plan \ Management
No gullies noted within or adjacent to the TAUP or some other text describing gullies within or adjacent to TAUP.	

RIPARIAN ASSESSMENTS					
Management Strategies				Site Plan \ Management Strategies (Riparian)	
Stream classifications were determined by [Contractor] in [month, year]. Lake/lakeshore classifications were determined through the [Fort St James Lakeshore Classification (August 2000) or Vanderhoof Lake Classification (?)]. Wetland classifications were determined by [Contractor] in [month, year].					
Site Plan > Riparian Areas					
Riparian I.D. and Class	RMA	SU	WIDTH (m)	BA or SPH Retained	Comments (Indicate if in a Community Watershed)
NCD	MFZ				This feature is located ... A 5-metre wide MFZ has been established for the harvest area adjacent to this feature. This is intended to protect the riparian interface and associated ground vegetation.
NCL, NCW					This feature is located... The harvest boundary is a minimum of 5m from the feature.

Site Plan

S1-A, S4, S5, S6, NCD, W3, NCW, L1-A (VHF), L3, NCL	RMZ				This feature is located ... The harvest boundary has been located a minimum of [x] metres from this feature to ensure the minimum required basal area retention in the RMZ has been [achieved or exceeded]. This RMZ retention contributes to WTRA[x].
S1-B, S2, S3, W1, W5, L1-A (FSJ), L1-B (FSJ)	RRZ				This feature is located ... The entire RRZ within/adjacent to this block is outside the harvest area boundary. This RRZ and the associated RMZ retention contribute to WTRA[x].
	RMZ				The harvest boundary has been located a minimum of [x] metres from this feature to manage the protection of the RRZ and to ensure the minimum required basal area retention in the RMZ has been [achieved or exceeded].

SOIL ASSESSMENT				Site Plan > Standards Unit \ Planned Soil Disturbance			
HAZARD RATINGS				SOIL CHARACTERISTICS			
SU	Soil Comp	Soil Erosion	Soil Disp	Depth To Unfavourable Subsoil		Type of Unfavourable Subsoil	Sediment Delivery Risk (Community Watersheds)
				Min(cm)	Max(cm)		
COMMENTS				Site Plan \ Soil (Soil Conservation Comments)			

RESERVE/RETENTION INFORMATION

WTRA/WTP (INSIDE OR ATTRIBUTED TO THE BLOCK)			Site Plan > Standards Unit
(Summary Description)			
I.D.#	Area	WTP Description	
WTRA		Wildlife Tree Retention Areas (WTRAs) are areas intended to retain wildlife trees for the purposes of providing wildlife habitat and assisting in the conservation of stand level biodiversity. WTRAs, designed using professional judgement and discretion, can be used to manage retention associated with riparian interfaces (often areas of high biological diversity and wildlife habitat importance) and provide protection for areas of significance (ecologically valuable plan communities, cultural heritage resources or unique stand, habitat or wildlife values, etc.).	
		WTRA 1 is [#] ha, primarily for the management/protection of the [riparian areas, cultural heritage resources, migratory birds, wildlife habitat, or ...], is comprised of [description to include estimated Inventory label(s), BGC classification, CWD levels, etc.]	

WTP AND SITE DEG. CALCULATION (to be retained on the first block of the Permit only)						
Block	Gross Cutblock Area	WTP	WTP %	BEC	Perm Access	%
Total # of Blocks:						

SUPPORTING INFORMATION

HLP/FSP CONSIDERATIONS	
Wildlife/Endangered Species Comments	Site Plan \
Objectives (Wildlife)	
Species at Risk: The Predictive Ecosystem Model (PEM) did not identify the potential for the presence of red or blue listed species at risk plant communities. None were noted during the collection of field data. Yellow listed ecological communities ([BGC classification]) are present but do not require any special management considerations in British Columbia to mitigate the effects of harvest operations currently.	
Range Comments	Site Plan \
Objectives (Range)	

Site Plan

Refer to Measure in the Site Plan. Include additional comments regarding accommodation of range tenure not covered by the R&S.	
Fisheries Comments Objectives (Fisheries)	Site Plan \
Refer to R&S in the Site Plan. Include additional comments regarding management of FSW not covered by the R&S.	
Watersheds/Hydro Assessments Comments Objectives (Watersheds)	Site Plan \
Refer to R&S in the Site Plan.	
Sensitive Areas Comments (Sensitive Areas)	Site Plan \ Objectives
No Sensitive Areas, other than those identified in other sections of the Site Plan and Support Document, have been identified in or adjacent to this block.	
Recreation Comments Objectives (Recreation)	Site Plan \
Refer to R&S in the Site Plan. If applicable, describe any management practices prescribed not covered under R&S to accommodate recreation features within or adjacent to block.	
Cultural Heritage Comments (Cultural Heritage)	Site Plan \ Objectives
Refer to the R&S in the Site Plan.	
Biodiversity Emphasis/L.U. Comments (Biological Diversity)	Site Plan \ Objectives
Refer to the Wildlife/Endangered Species comments in the Site Plan. Include additional comments regarding biodiversity or Landscape Unit management not covered by the R&S.	
Other Resources Comments (Other Resources)	Site Plan \ Objectives
Trapline tenure: [#] or N/A Guiding tenure: [#] or N/A Mineral tenure: [#name] or N/A Tourism operation: [name] or N/A Some stakeholders require notification prior to the commencement of Primary Forest Activities.	
ADDITIONAL COMMENTS:	
Comments (SPPLN / OTHER)	Site Plan > Site Plan Comments
[Include a description/assessment of suitable secondary structure – eg. An ocular estimation of Suitable Secondary Structure was done prior to/during the development of the harvest area. No areas greater than five hectares having an adequate stocking density of Suitable Secondary Structure were identified within the harvest area.]	

ADMINISTRATION

Amendment number	Date Typed (Yr Mo Dy)	Map Required?
ORIGINAL		YES

Site Plan

THE FOLLOWING INFORMATION IS ATTACHED FOR INFORMATION ONLY AND DOES NOT FORM PART OF THE SITE PLAN

HARVEST PLAN

LICENCE #	CP	BLOCK	UBI	OPENING NUMBER	FDU	LOCATION	LATITUDE / LONGITUDE

SILVICULTURE SYSTEMS

Silviculture System							Site Plan >
SU	SYSTEM	VARIANT	PHASE	RESERVE	Min BA (m3/ha)	Min Residual Density (sph)	
Current Stand Structure/Site Conditions			<i>[Description of existing stand type(s).]</i>				
Silviculture Systems SU Comments			<i>[Description of prescribed silviculture system by HU.]</i>				
Min. Characteristics of Leave Trees (Form, Health, Vigour)			<p>Healthy immature conifer species, mature deciduous species and Douglas Fir trees shall be retained unless it is unsafe to do so, or felling is required for road building. Dispersed leave tree retention can supplement stocking, provide structural diversity, wildlife/perching/nesting habitat and contribute to long-term coarse woody debris (CWD).</p> <p><i>Application of the following will require some professional judgement (eg. subject to timber profile, harvest area opening size, harvest area diversity, fisher habitat tool recommendations, etc.), but in general the desired condition is to prescribe harvest area dispersed stubbed trees.</i></p> <p>Dispersed stubbed conifer trees should be created during Primary Forest Activities to provide clearcut structural diversity, perching and nesting habitat.</p> <ul style="list-style-type: none"> - Where operationally feasible or stem distribution allows, target an inter-stub distance of 40 to 60 metres where emphasis is placed on retaining stubbed conifer trees > 30 cm DBH or those containing existing cavities (dispersed mature live trees can replace stub trees); - Preference given to 'anchoring' stubbed trees close to NCB, NP and MFZ areas (not within 50 metres of adjacent stands or WTRAs); and - Stub trees to a height possible with conventional ground-based harvesting equipment – ie. 2 to 3 metres minimum. 				
Site Plan > Site Plan Comments							
(SPHARVHC / HARVC)							
Harvesting Constraints	<p>Separate HUs must be created for areas within the harvest area with seasonal/timing restrictions (eg. sensitive soil management, migratory bird management, etc.), equipment restrictions (eg. MFZs), Wildland Urban Interface (WUI) areas, special harvesting practices, etc.</p> <p><i>[As required, Harvest Unit description, explanation, or rationale. In the case of WUI areas, this should include hazard abatement strategies prescribed to manage the fire hazard.]</i></p>						
Harvesting Constraints	<i>[This section used to address site and seasonal conditions that will impact, influence, or constrain harvesting operations – eg. steep slopes, designated crossings, machine free zones (MFZs), boundary stubbing, etc.]</i>						
Silvicultural Constraints	<i>[As applicable.]</i>						

SOIL ASSESSMENT

Site Plan > Standard Unit (Planned)

SU	HAZARD RATINGS	SOIL DISTURBANCE	SOIL CHARACTERISTICS
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Site Plan

	Soil Comp.	Soil Erosion	Soil Disp.	Max Allow Soil Dist %	Max Allow Max Amount TAS may exceed MASD prior	Max Allow Perm Access Structures %	MASD for Roadside work areas %	Depth to Unfavorable Subsoil		Type of Unfavorable Subsoil	Sediment Delivery Risk (Comm. Watershed)
								Min (cm)	Max (cm)		
SU	Critical site conditions that affect the timing of operations and how they affect the timing										Site Plan > Standard
	Unit (Ecology) (same as Site Plan)										
SU MANAGEMENT COMMENTS											
SU	SU Description										Site Plan > Standard Unit (Summary
	Description) [If applicable, description of harvesting techniques/methods that could assist with minimizing soil disturbance.]										
SOIL MANAGEMENT COMMENTS											
Soil Conservation										Site Plan \ Soil (Soil	
Conservation Comments) (same as Support Document)											
Temporary Access										Site Plan \ Soil (Management	
Strategies for TAS) [Description of Temporary Access Structures, prescribed rehabilitation, and timing of rehabilitation. Note if rehabilitation is required due to Access Management Plans.]											
Slope Instability										Site Plan \ Soil	
(Slope Information) (same as Support Document)											

RIPARIAN ASSESSMENTS					
Management Strategies					Site Plan \ Management Strategies (Riparian)
(same as Support Document)					
Site Plan > Riparian Areas					
Riparian I.D. and Class	RMA	SU	WIDTH (m)	BA or SPH Retained	Comments (Indicate if in a Community Watershed)

COARSE WOODY DEBRIS MANAGEMENT STRATEGY INFORMATION	Site Plan \ Objectives
(Coarse Woody Debris)	
Management strategies for CWD should not compromise close utilization standards or fire hazard abatement. In accordance with this, the retention of mature leave trees and dispersed stubs, existing CWD, non-merchantable logs and WDPs will contribute to long-term CWD objectives.	
Post –harvest CWD target levels for this block are:	
DJA FSP: A minimum 20 m ³ /ha in logs will be retained. The current approved FSP sets the minimum legal requirement (FPPR Section 68 (1b) at 4 logs per hectare, where a "log" is defined as having a minimum length of 2.0 m and a diameter of 7.5cm at one end for the interior).	
DVA FSP: 5 to 10 pieces of CWD/ha, where a piece, at least 2.0 metres long, is greater than 15 cm in diameter at one end.	
CWD retention must be dispersed throughout the harvest area.	



Site Plan

Performance Std. (%):	Block Target (%):	Coarse Woody Debris (m3/ha):
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DEFINITIONS

ADMINISTRATION

Amendment number	Date Typed (Yr Mo Dy)	Map Required?
ORIGINAL		YES

RPF PRINTED NAME	RPF'S SIGNATURE and SEAL
DATE SIGNED	

Print off the PAS/TAS table located as an attachment on the Block Details Screen and attach to this prescription.



Site Plan

THE FOLLOWING INFORMATION IS ATTACHED FOR INFORMATION ONLY AND DOES NOT FORM PART OF THE SITE PLAN

SILVICULTURE PLAN

LICENCE #	CP	BLOCK	UBI	OPENING NUMBER	FDU	LOCATION	LATITUDE / LONGITUDE

ECOLOGICAL INFORMATION

Site Plan > Standard Unit >

SU > Ecology Unit

SU	Ecology Unit	Area	Zone	Subzone	Variant / Phase	Site Series (series - %)	Elevation Avg (m)	Slope Avg (%)	Aspect	Slope Position	Rooting Depth (cm)	Soil Texture

STOCKING REQUIREMENTS

ASSESSMENT DATES Site Plan > Standard Unit (SU Stocking)

Standard Unit	Standards ID	Regen Delay (yrs)	Freegrow Early (yrs)	Freegrow Late (yrs)
Min/Max Elevation Regime:				

SU : 1 REGENERATION LAYER

PREFERRED SPECIES			ACCEPTABLE SPECIES			POST SPACING DENSITY (sph)		MAX CONIFEROUS (sph)	
Species	Min Ht. (m)	Footnotes	Species	Min Ht. (m)	Footnotes	Min	Max		
						WELL SPACED TREES (sph)			
						Target Pref/Acc	Minimum Pref/Acc	Minimum Pref	Min Horizontal Dist. Pref/Acc (m)
								Height Relative to Competition (%)	

OTHER REQUIRED STOCKING INFORMATION

Site Plan \ Stocking Comments (Other Required

Stocking Information)

Include any comments or commitments related to reforestation activities.

Include comments related to presence of rust secondary host species or other forest health indicators that would influence species selection during reforestation.

Example: special requirements for managing moose habitat for blocks within Conditional Harvest zones of Moose UWR (Order 7-018, 7-020) or buffers related to ESI Phase 2).

Maximize use of stocking standard latitude to allow for presence of moose browse species and alternate species.

If manual brushing required, retain non-competing important moose browse species (dogwood, willow, subalpine fir, cranberry, hazelnut, saskatoon, etc.) especially within 10 metres of block edges.

ACTIVITIES [Silviculture treatment activities below will be based on detail entered in the Treatment Regime activities.]

SITE PREPARATION

Silviculture Activity > Mechanical

(Site Preparation)



Site Plan

Mechanical (Site Preparation)	
AREA	TECHNIQUE(S) / LIMITING FACTOR

PLANTING Silviculture Activity >						
Planting (Container)						
AREA	PLANTING UNIT	UNIT AREA	SPECIES	COMMENTS	STEMS / HA	TOTAL STEMS
LIMITING FACTORS / COMMENTS						

BRUSHING / STAND TENDING Silviculture Activity >	
Manual (Brush Saw)	
Manual (Brush Saw)	
AREA	TECHNIQUE(S) / LIMITING FACTOR
	Note special requirements of UWR U7-018 and U7-020 if applicable

SILVICULTURE ACTIVITY COMMENTS	
ACTIVITY	COMMENT

MANAGEMENT STRATEGY

COARSE WOODY DEBRIS MANAGEMENT STRATEGY INFORMATION Site Plan \ Objectives		
(Coarse Woody Debris)		
(same as Harvest Plan)		
Performance Std. (%):	Block Target (%):	Coarse Woody Debris (m3/ha):



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Site Plan

ADMINISTRATION

Amendment number	Date Typed (Yr Mo Dy)	Map Required?
ORIGINAL		YES

RPF PRINTED NAME	RPF'S SIGNATURE and SEAL
DATE SIGNED	



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Site Plan