



Natural Resource
Ministries

Schedule L BCTS GIS Data Standards

File:10005-40/IM24TLE003

Attachment to the Agreement _____ for **Spring Tree Planting Implementation – Western Cariboo – Williams Lake Timber Supply Area.**

BCTS GIS Data Standards **(FOR SILVICULTURE CONTRACTS)**

Version 7

Last Updated: January 10, 2018

BC Timber Sales Cariboo-Chilcotin Business Area

The Contractor is required to use the following standard for completing Silviculture Survey Activities in in Land Resource Manager (LRM) Application (formerly Cengea Resources):

"TCC Survey Data Standards -Coding for SILV survey activities.doc"

located at:

https://www.for.gov.bc.ca/ftp/TCC/external/!publish/Data_Standards/ArcGIS/Silviculture/

OR

ftp://ftp.for.gov.bc.ca/TCC/external/!publish/Data_Standards/ArcGIS/Silviculture/

OVERVIEW

The goal of GIS department at BCTS is to have all supplied digital data arrive in a condition that maximizes its ability to be incorporated into our GIS System and Land Resource Manager – LRM (formerly Cengea Resources), in the most efficient and accurate means possible. To meet this goal, all contractors, consultants and data suppliers must adhere to the following criteria for digital data standards.

ArcGIS software is being utilized within BCTS. Therefore, spatial data will only be accepted in the Shapefile format. The table structures for different types of data are described in detail under the “Shapefile Specifications” section.

This document will be revised annually but may be updated periodically during the year as well. If there are any changes or updates, release notes will be sent out at that time.

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BCTS SDE DATA CUT LOCATION (FOR REFERENCE PURPOSE)

Following geodatabase ‘TCC_CUT.mdb’ can be used for reference to identify and copy **Cut Block** location by Timber Sale Licence (TSL) number:
ftp://ftp.for.gov.bc.ca/TCC/external/!publish/Digital_Files/Shapefiles/

DIGITAL DATA STANDARDS

- All spatial data will be submitted via **ESRI standard Shapefile** format.
- All data must be spatially referenced to **NAD83** and projected to **BC Environmental Albers**.
- All shapefiles must have four associated files making up the shapefile: .shx, .shp, .dbf and a .prj file defining the above projection and coordinate system.

Projection Information

Projection:	Albers Conic Equal Area
Central Meridian:	-126.0 degrees
First standard parallel:	50.0 degrees
Second standard parallel:	58.5 degrees
Latitude of reference:	45.0 degrees
False Easting:	1000000 meters
False Northing:	0 meters

- All spatial data must be topologically correct (no overlaps, no gaps).
- All spatial data must have the correct spatial reference (positioned in the correct geographic location)
- A separate shapefile must be submitted for each individual block.
- Only submit shapefiles for layers you have collected data for

- Snapping should be set before commencing data edits so that line works and polygons will be snapped appropriately where needed

FILE NAMING CONVENTION

Each block shapefile must be named as follows:

For TSL with CP	XXX_TSL_CP_BLK.*
For TSL without CP	XXX_TSL_BLK.*

Here:

XXX	=	Prefix for each type of activity
TSL	=	Timber Sale Licence Number
CP	=	Cutting Permit
BLK	=	Block Number

Note:

- If there is no **CP (Cutting Permit)**, there is no need to have it in the name.
- **A prefix for each type of activity must be in the file name**

ACTIVITY	PREFIX
Silviculture Survey	SUR
Silviculture Activities (other than Survey, and Planting)	ACT
Silviculture Planting	PL

*Example:

A 'Silviculture **Survey**' file for **TSL 'A55512', CP 'B', and Block '12'** will be **SUR_A55512_B_12**.

A 'Silviculture **Planting**' file for **TSL 'A55513' and Block '1'** will be **PL_A55513_1**.

SHAPEFILE SPECIFICATIONS

Following layers and types may be required to be submitted depending on the services being requested.

Layer	TYPE or FEATURE CLASS
Silviculture Survey	Polygon
Silviculture Activities	Polygon
Silviculture Planting	Polygon

Silviculture Survey

The shapefile schema for **Silviculture Survey** must be as follows:

FIELD NAME	FIELD LENGTH	DATA TYPE
TSL	6	Text
CP	6	Text
BLOCK	3	Text
SURV_CODE	5	Text
COMMENTS	254	Text

*Note: **COMMENTS** field is optional, all other fields **must** be filled in. There is no need to fill in the field **CP** if there is no CP information available.*

Attribute Codes:

TSL: Timber sale number of the block (e.g. A55512)
CP: Cutting permit of the block (e.g. A, B, etc.)
BLOCK: Block number (e.g. 1, 2, etc.)
SURV_CODE: This code is used to identify specific stratum units within a block

Acceptable Values for SURV_CODE:

CODE	DESCRIPTION
A, B, C, D etc to K	This is Survey Stratum, part of the net area to be reforested (A letter must be entered in this field starting with A and then each additional unit would get lettered sequentially)
IMM	Immature Patch
RES	Residual
W	Wildlife Tree Patch
R	Road
EP	Experimental Trials
RRZ	Riparian Reserve Zone
S	Swamp
NPBR	Brush (Non-Productive)
NPNAT	Natural (Non-Productive)
L	Water (Lakes, Ponds)
RO	Rock
OR	Open Range
O	Other
NPGP	Gravel Pits (Non-Productive)
NPSL	Seismic Line (Non-Productive)
CLA	Conservation Legacy Area

COMMENTS: Any applicable comments regarding this activity for GIS/Silviculture Technicians

Silviculture Activities

The shapefile schema for **Silviculture Activities** must be as follows:

FIELD NAME	FIELD LENGTH	DATA TYPE
TSL	6	Text
CP	6	Text
BLOCK	3	Text
ACT_CODE	10	Text
COMMENTS	254	Text

*Note: **COMMENTS** field is optional, all other fields **must** be filled in. There is no need to fill in the field **CP** if there is no CP information available.*

Attribute Codes:

TSL: Timber sale number of the block (e.g. A55512)
CP: Cutting permit of the block (e.g. A, B, etc.)
BLOCK: Block number (e.g. 1, 2, etc.)
ACT_CODE: This code is used to identify specific silviculture activities in a block

Acceptable Values:

CODE	DESCRIPTION
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SP	Site Prep Areas
BRUSH	Brushing Areas
MISTLETOE	Mistletoe Areas
JS	Juvenile Spacing Areas

COMMENTS: Any applicable comments regarding this activity for GIS/Silviculture Technicians

Silviculture Planting

The shapefile schema for **Silviculture Planting** must be as follows:

FIELD NAME	FIELD LENGTH	DATA TYPE
TSL	6	Text
CP	6	Text
BLOCK	3	Text
PLANT_CODE	5	Text
COMMENTS	254	Text

*Note: **COMMENTS** field is optional, all other fields **must** be filled in. There is no need to fill in the field **CP** if there is no CP information available.*

Attribute Codes:

TSL: Timber sale number of the block (e.g. A55512)
CP: Cutting permit of the block (e.g. A, B, etc.)
BLOCK: Block number (e.g. 1, 2, etc.)
PLANT_CODE: This code is used to identify specific planting units within a block

Acceptable Values:

- A numeric value must be entered in this field starting with 1 and then each additional unit would get numbered sequentially (**1, 2, 3, etc.**)

COMMENTS: Any applicable comments regarding this activity for GIS/Silviculture Technicians

SHAPEFILE TEMPLATE LOCATION

A copy of GIS Data Standard (this document) and Shapefile templates with correct schema are available on the MOF FTP site under the following directory:

ftp://ftp.for.gov.bc.ca/TCC/external/!publish/Data_Standards/ArcGIS/Silviculture/ **OR**
http://www.for.gov.bc.ca/ftp/TCC/external/!publish/Data_Standards/ArcGIS/Silviculture/