114P062

# Vegetation Map
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Scale 1:20,000

0 0.25 0.5 0.75 1 Kilometers

0 0.25 0.5 Miles

Vegetation Data Source: MFLNRO - VRMS / Ownership
Base Map Source: TRIM / Tantalis

This map is created from information stored digitally in the BC Geographic Warehouse. The map has been structured to meet the needs of the Ministry of Forests, Lands, and Natural Resource Operations. The information portrayed may not be complete and up to date Cadastral, administrative boundaries and the Ownership colour theme are for reference purposes only. (Legend revisions June 2014)

Labels Projected To: January 1, 2016

## MAP SYMBOLOGY

**Forest Inventory Features:**
- Forest Vegetation Polygons
- Silviculture Opening in Vegetation
- Permanent Sample Plot (GYS)
- Research Installations

**TRIM_Base Features:**
- As Built Roads
- Forest Tenure Road Lines
- Paved Roads
- Rough Roads
- Trails/Cutlines
- Railways
- Air Ferries
- Other lines
- Powerline
- Pipeline
- Buildings
- Misc Areas
- Misc Lines
- Water Lines
- Hydrkvalt/Barriers - EBM
- Watercourses - EBM
- Waterbodies - EBM
- Wetlands - EBM
- Ocean - EBM

**Administrative Boundaries:**
- BC Provincial Boundary
- MFLNRO Region boundary
- Resource District boundary - FADM
- INV Region Compartment - FADM
- Provincial Forest area - FADM
- Timber Supply Area-Block - FADM
- Tree Farm Licenses - FADM
- Land District boundary
- Administrative boundary
- Survey Parcels - Tantalis
- Municipal boundary (< 1,000,000 ha - 15 % hatch)
- Municipal boundary (> 1,000,000 ha) - no hatch)
- National Parks
- First Nations
- Provincial Parks
- Ecological Reserves
- Protected Areas
- Recreation Areas

**Other:**
- BCGS Mapsheet Grid (1:20,000)

## VEGETATION LABEL DETAILS

**Example of a Vegetation Label:**

LINE DESCRIPTION
1 Silviculture symbol and Opening Number
2 Polygon Number and multi-layer stand indicator (L)
3 Species Composition
ex: the most important layer is described as Fd (Dougls Fir) and Hw (Western Hemlock).
4 Age, Height, Crown Closure Class Code - separator Site Index / estimated SI
ex: stand is age class 2 (21-40 yrs), height class 1 (0.1-10.4m), crown closure class 1 (6-15%), SI 20m
5 Vegetated Density Class (or Non-Forest/Productive Descriptor)
ex: a herb polygon with no distinction between forbs and graminoids, shrubs less that 2m.
6 Disturbance History & year - ex: Logged in 1978

OP 81C 045 Fd/Hw 21 20 1 HE 0378

**Line 1 - History Record Opening Number**

OP - opening number valid for BCGS mapsheet  OPN - opening number has not been assigned

**Line 2 - Polygon No./ Multi-layer**

VRMS Polygon Number - ranging from one to nine digits
/L - Multi-layered stand (a separate description of each layer is available in the data base, i.e. 1.2)

**Line 3 - BC Tree Code List**

Species Composition: Species are labeled in their order of predominance. Major first Minor in brackets.
The following codes are based on "The B.C. Ministry of Forests Tree Code List" version 4.5 dated January 2009.

**NATIVE CONIFERS**

| | |
|---|---|
| C | CEDAR |
| Cw | Western Red Cedar |
| Y | CYPRESS |
| Yc | Yellow Cedar |
| F | DOUGLAS FIR |
| Fd | Douglas Fir |
| Fdc | Coastal Douglas Fir |
| Fdi | Interior Douglas Fir |
| B | FIR (Balsam) |
| Ba | Amabilis Fir |
| Bg | Grand Fir |
| Bl | Subalpine Fir (alpine) |
| H | HEMLOCK |
| Hm | Mountain Hemlock |
| Hw | Western Hemlock |
| Hxm | Mountain x Western Hemlock hybrid |
| J | JUNIPER |
| Jr | Rocky Mtn Juniper |
| Js | Sweetie Juniper |
| L | LARCH |
| La | Alpine Larch |
| Lt | Tamarack |
| Lw | Western Larch |
| P | PINE |
| Pj | Jack Pine |
| Pl | Lodgepole Pine |
| Pli | Lodgepole Pine (interior) |
| Plj | Lodgepole x Jack Pine hybrid |
| Py | Ponderosa Pine (yellow) |
| Ps | Shore Pine (coast) |
| Pw | Western White Pine |
| Pwb | Whitebark Pine |
| S | SPRUCE |
| Sb | Black Spruce |
| Se | Engelmann Spruce |
| Ss | Sitka Spruce |
| Sw | White Spruce |
| Sx | Spruce hybrid |
| Sxw | Engelmann x White |
| Sxl | Sitka x White |
| Sxs | Sitka x unknown hybrid |
| T | YEW |
| Tw | Western Yew |

**NATIVE HARDWOODS**

| | |
|---|---|
| D | ALDER |
| Dr | Red Alder |
| E | BIRCH (Alder) |
| Up | Pacific Crab Apple |
| A | ASPEN, COTTONWOOD or POPLAR |
| Ac | Poplar |
| Act | Balsam Poplar |
| Acb | Black Cottonwood |
| At | Trembling Aspen |
| Ati | AMBUTUS |
| Ra | Arbutus |
| Ep | Paper Birch |
| Epg | Alaska x Paper Birch hybrid |
| Ep | Paper Birch (white) |
| Ew | Water Birch |
| Kc | CHERRY |
| Kp | Choke Cherry |
| V | OHERRY |
| Vb | Bitter Cherry |
| Vv | Choke Cherry |
| Vu | Pin Cherry |
| Q | DOGWOOD |
| Qg | Pacific Dogwood (western flowering) |
| M | MAPLE |
| Mb | Bigleaf Maple (broadleaf) |
| Mv | Vine Maple |
| G | OAK |
| Gg | Garry Oak |
| W | WILLOW |
| Wb | Bebb's Willow |
| Wp | Pacific Willow |
| Ww | Peachleaf Willow (Banksy's) |
| Wr | Red Willow (Scouler's willow) |
| Ws | Sooolan's Willow |
| Wt | Sitka Willow (tea-leaved) |

**UNKNOWN - OTHER**

| | |
|---|---|
| X | UNKNOWN |
| Xc | unknown conifer |
| Xh | unknown hardwood |
| Xs | unknown shrub (or herb) |
| Z | other conifer |
| Zh | other hardwood |

**EXOTICS**

| | |
|---|---|
| Ue | APPLE |
| Ua | ASPEN, COTTONWOOD or POPLAR |
| Ad | * Southern Cottonwood |
| | BIRCH |
| Be | European Birch |
| Bs | Silver Birch (swamp) |
| Bp | Gray Birch |
| | CHERRY |
| Cp | * Pistol Orford Cedar |
| | FIR |
| Bm | * Balsam Fir |
| Bp | Noble Fir |
| Bm | * Shasta Red Fir |
| Bc | * White Fir |
| L | LARCH |
| Lyl | * Golden Larch |
| Ld | * Siberian Larch |
| | MAPLE |
| Me | Box Elder |
| Mn | * Norway Maple |
| Mp | * Sycamore Maple |
| | OAK |
| Oq | * English Oak |
| Qw | * White Oak |
| | OTHER EXOTICS |
| Oa | * Incense Cedar |
| Ob | * Monterey Cedar |
| Oc | * Coast Redwood |
| Od | European Mountain Ash |
| Oe | * Siberian Elm (southern) |
| Of | Common Pear |
| Oh | * Horse Chestnut |
| Oh | * White Ash |
| Or | * Shagbaack Hickory |
| Oj | Tree-of-Heaven |
| Ok | Japanese Walnut |
| | PINE |
| Pm | * Monterey Pine |
| Pr | * Red Pine |
| Py | * Scots Pine |
| | SPRUCE |
| Sn | * Norway Spruce |

**Line 4**

**4a. AGE CLASS**

| CODE | LIMITS (years) |
|---|---|
| 1 | 1-20 |
| 2 | 21-40 |
| 3 | 41-60 |
| 4 | 61-80 |
| 5 | 81-100 |
| 6 | 101-120 |
| 7 | 121-140 |
| 8 | 141-250 |
| 9 | 251 + |

**4b. HEIGHT CLASS**

| CODE | LIMITS (metres) |
|---|---|
| 1 | 0.1 - 10.4 |
| 2 | 10.5 - 19.4 |
| 3 | 19.5 - 28.4 |
| 4 | 28.5 - 37.4 |
| 5 | 37.5 - 46.4 |
| 6 | 46.5 - 55.4 |
| 7 | 55.5 - 64.4 |
| 8 | 65.5 + |

**4c. CROWN CLOSURE CLASS**

| CODE | LIMITS (percentage) |
|---|---|
| 0 | 0 - 5 |
| 1 | 6 - 15 |
| 2 | 16 - 25 |
| 3 | 26 - 35 |
| 4 | 36 - 45 |
| 5 | 46 - 55 |
| 6 | 56 - 65 |
| 7 | 66 - 75 |
| 8 | 76 - 85 |
| 9 | 86 - 100 |

**4d SITE INDEX**
All SI are shown to the nearest metre referenced at 50 years Breast Height Age. SI is based on the age and height of the dominant layer. Where the age is breast height age, estimated age and height, estimated SI is shown after an oppiaos the SI

**4e. ESTIMATED SITE INDEX**
SI is estimated when suitable SI trees arenot present, e.g. young stands (<30yrs). It is denoted by a slash which always precedes the estimated SI. Estimated SI are inventory Type Group and SI Estimated source code.

**Line 5 Vegetation records**

**VEGETATED NON-TREE CATEGORIES (for V and I records)**

**NON-TREED SHRUB**
- sl SHRUB TALL - shrub with average shrub height > or = to two metres.
- sl SHRUB LOW - shrub with average shrub height < two metres.

**NON-TREED HERB**
- he HERB - herb with no distinction between forbs and graminoids.
- hf HERB - FORBS - herb with forbs > 50% of the herb cover.
- hg HERB - GRAMINOIDS - herb with graminoids > 50% of the herb cover.

**NON-TREED BRYOID**
- by BRYOID - bryoid with no distinction between mosses and lichens by cover.
- bm BRYOID - MOSS - bryoid with mosses, liverworts, and hornworts > 50% of the bryoid cover.
- bl BRYOID - LICHENS - bryoid with lichens > 50% of the bryoid cover.

**NON VEGETATED**
- ss Soil / Sand
- sr Rock / Rubble
- si Snow / Ice

**NON-VEGETATED CATEGORIES (for V and I records)**

| | | | |
|---|---|---|---|
| ap | AIRPORT | gp | GRAVEL PIT |
| be | BEACH | la | LAKE |
| br | BUDKYFIELD | ll | LAKEBED |
| br | BEDROCK | ld | LANDING |
| cb | CLIFF/CANYEA | mv | MUDFLAT/LAKE SEDIMENTS |
| cb | CUTBANK | op | OPEN PIT MINE |
| es | EXPOSED SOILS | mn | MORAINE |
| gl | GLACIER | | |

| | | | |
|---|---|---|---|
| mu | MUDFLAT SEDIMENT | rm | RESERVOIR MARGIN |
| mr | RUBBLY MINE SPOILS | rm | RAILWAY SURFACE |
| oc | OCEAN | rs | RIVER SEDIMENTS |
| ot | OTHER | rd | ROAD SURFACE |
| rc | RIPARIAN COVER | s | SAND |
| re | RESERVOIR | ta | TAILINGS |
| r | RIVER / STREAM | ur | URBAN |

Note: Water categories (la, lo, re, r) not labelled over 90 percent coverage.

**NON-FOREST / NON-PRODUCTIVE DESCRIPTOR CODES (for E records)**

| | | | |
|---|---|---|---|
| A | ALPINE | NP | NON PRODUCTIVE |
| AF | ALPINE FOREST /Species | NPBR | NON-PRODUCTIVE BRUSH |
| C | CULTIVATED | NPBU | NON-PRODUCTIVE BURN |
| GL | CLAY SAND | NPF | NON PRODUCTIVE FOREST /Species |
| GL | GLACIAL TILL | NPL | NON-TREED AVAILABLE |
| GR | GRAVEL PIT | OA | OPEN RANGE |
| ICE | ICEFIELD | P | HAYFIELD |
| M | MEADOW | R | ROCK |
| MUD | MUDFLAT | S | SWAMP |

| | | | |
|---|---|---|---|
| SAND | SAND | | |
| TIDE | TIDAL FLAT | | |
| U | URBAN | | |
| NC | NON COMMERCIAL | | |
| NCBR | NON COMMERCIAL BRUSH | | |
| NP | NON PRODUCTIVE | | |
| NSR | NOT SUFFICIENTLY RESTOCKED | | |
| NTA | NO TYPING AVAILABLE | | |

**Line 6 - Disturbance History**

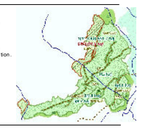
Disturbance type code preceded by symbol, followed by earliest date
First character of disturbance type designates category, refer to official code list for sub-category descriptions.

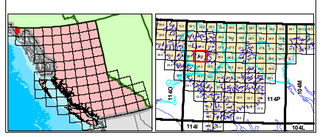
| | | | |
|---|---|---|---|
| A | Animal Damage | L | Logging |
| B | Wildfire | M | Mite Damage |
| C | Cone and Seed Insects | N | Non-Biological Injuries |
| D | Diseases | P | Cone and Seedling Fungal Pathogens |
| I | Insects | R | Site Rehabilitation |
| | | T | Treatment Unknown |
| | | U | Damage Unknown |
| | | V | Problem Vegetation |

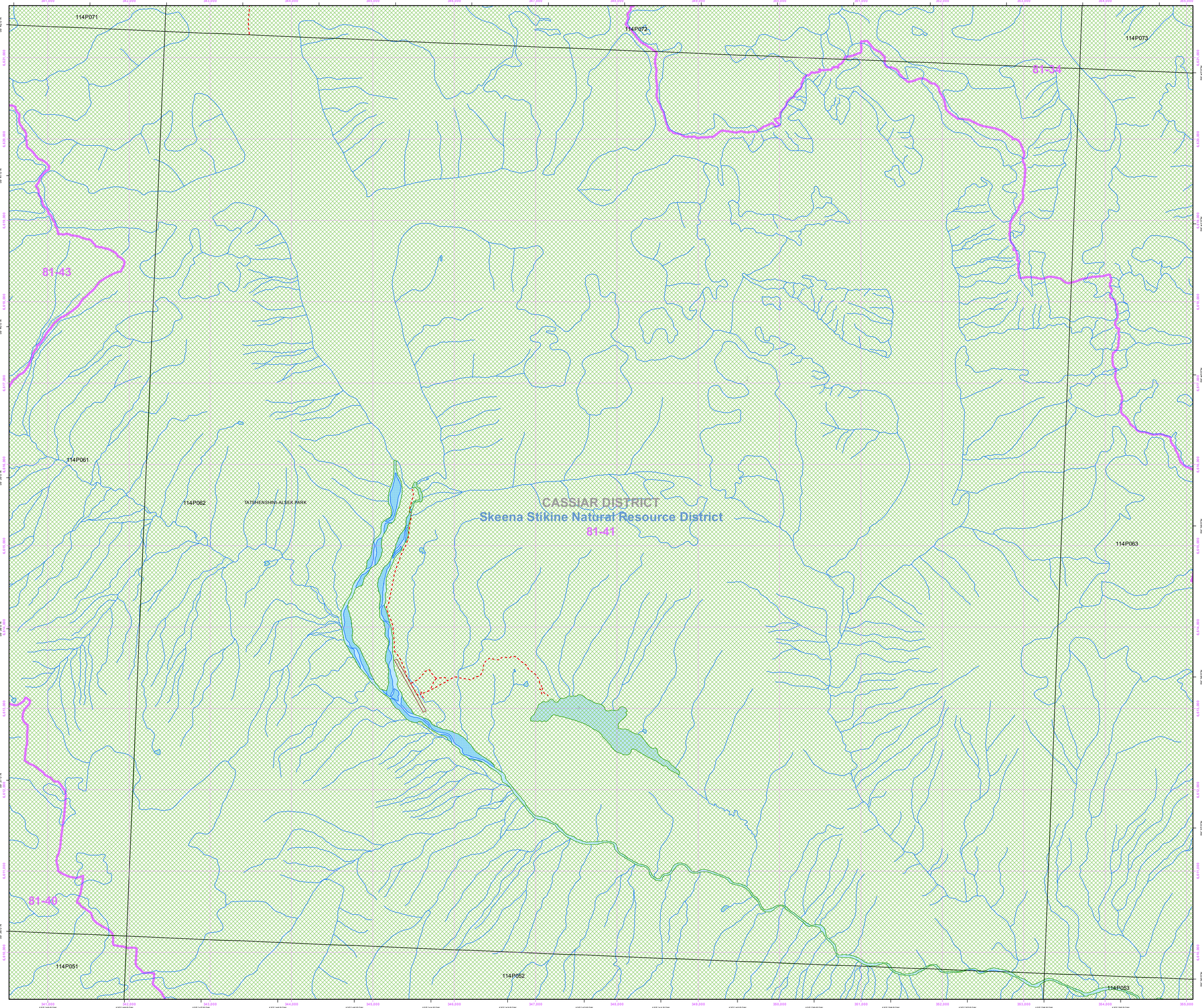
**Example Opening History Details**

Detailed Silviculture information is available on the BCGW utilizing either IMF or ArcMap. The MapView example is of themed RESULTS data.

The Ministry of Forests, Mines and Lands web application MAPVIEW is available to view this type of detailed information. Select the SILVICULTURE tab then click on "Display Silviculture Map" to turn on display values for -
- OPENING
- OPENING LABELS
- OPENING - PLANTING ACTIVITY
- ACTIVITY TREATMENT UNIT
- STANDARDS UNIT
- SILVICULTURE FOREST COVER
- WILDLIFE TREE PATCH



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