College of New Caledonia

CNC

Growing New Knowlege

Research Forest

CNC Research Forest Annual Report #14 2022 to 2023

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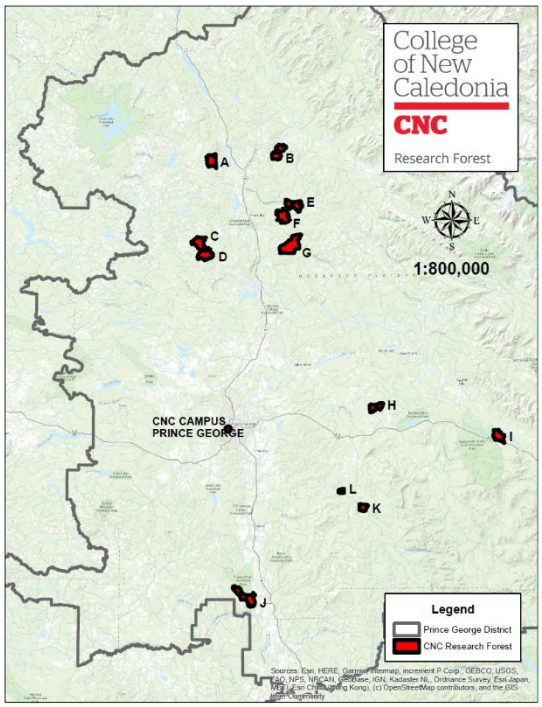
April 1, 2022 to March 31, 2023

Introduction to CNC and the CNC Research Forest

The College of New Caledonia (CNC) is a post-secondary educational institution that serves the residents of the central interior of British Columbia. The College was established in Prince George in 1969 and has since grown to enrollment of approximately 5,000 students, each year, in career, technical, vocational, and university credit courses. CNC has campuses in Prince George, Quesnel, Mackenzie, Burns Lake, Valemount, Fort St. James, and Vanderhoof. Credits can be transferred to university programs at the University of British Columbia, Simon Fraser University, University of Victoria, Thompson Rivers University, University of Northern British Columbia, and Royal Roads University.

To revitalize and sustain forestry and natural resource education at CNC, the CNC Research Forest was founded in 2009 through the issuance of provincial Special Use Permit S24940 and coinciding Occupant License to Cut L49404. Since its inception, the CNC Research Forest has supported significant forestry operations, natural resource research projects, in-field teaching, and educational enhancement consistent with the original, intended purposes. These benefits are expected to continue, supported by strong community partnerships, significant revenue surpluses and the continuous resources available through the CNC Research Forest office.



CNC continues to offer a Natural Resources and Forest Technology program (NRFT) that utilizes the CNC Research Forest for instructional, research and demonstration purposes. The CNC Research Forest not only supports practical learning, but it also allows direct student engagement in a variety of on-going natural resource research projects and connections to external partners. With the continuous operation of the CNC Research Forest office, CNC is also able to offer temporary work experience opportunities for students, involving wide-ranging forestry and research operations. The CNC Research Forest also facilitates regular growth and engagement of the NRFT faculty by providing continual opportunities to conduct their own studies and research, and to collaborate

with other experts, professionals, and students. In these ways, the Research Forest continues to enrich the natural resource education offered through CNC.

First Nations' Territory and Indigenous Rights

CNC and the CNC Research Forest Society (CNCRFS) acknowledges that the Research Forest lies within the territory of the Lheidli T'enneh First Nation, south and southeast of Prince George, and within Tse'Khene territory, specifically that of the McLeod Lake Band, north of Prince George, and within the Nazko First Nation territory to the south of Prince George. Likewise, CNC and the CNCRFS recognize that Treaty 8 rights and Indigenous rights associated with the McLeod Lake Band, as well as the Treaty 8 and Indigenous rights that apply to the Halfway River, West Moberly, and Doig River First Nations within the Arctic watershed. CNC and the CNCRFS are grateful for the support offered by the First Nations and for their sharing of territorial natural resources. CNC and the CNCRFS are continuing to expand efforts to ensure the Research Forest may positively benefit these Nations in multiple ways.

Consistent with British Columbia's commitment to enact the United Nations Declaration on the Rights of Indigenous Peoples, CNC and the CNC Research Forest Society have established new strategic goals focused on new collaboration and partnerships with the Lheidli T'enneh First Nation, the McLeod Lake-Tse'Khene Nation and the Nazko First Nation. CNC and the CNC Research Forest Society look forward to the securing further research and educational benefits with these First Nations, and to exploring and implementing shared stewardship of the forest ecosystem resources.

Business Partnership

To support the regular implementation of forest harvesting and related activities, and to provide for guaranteed timber sales, collaboration with a local forest company was sought. Since 2013, Dunkley Lumber, a company known for quality forest practices and innovation, has partnered in providing professional support and significant operational capacity to implement regular forestry and research operations. This partnership has continued to provide benefits in both directions and remains a cornerstone in the ongoing operation of the CNC Research Forest.

Dunkley Lumber website; Our Operations; Strathnaver. Sourced from: https://dunkleylumber.com/our-

Dunkley Lumber Ltd. (Dunkley) is a family-owned lumber manufacturing business with operations located south of Prince George, British Columbia, south of Grande Cache, Alberta, and in Carrot River, Saskatchewan. The Dunkley Lumber mill at Strathnaver, located south of Prince George, is one of the largest sawmilling facilities in North America, processing predominantly SPF (white spruce, lodgepole pine, and subalpine fir) along with Douglas-fir. A long-standing commitment to modernization and efficiency has allowed Dunkley to maintain a strong position in the forest industry.

CNC is very pleased with the ongoing accomplishments of the Dunkley partnership, including the North American silver medal at the 2016 International Global Best Awards, recognizing the unique partnership between business and education which serves to boost learning and employability through collaboration.

CNC Research Forest Society

An independent governing board was created to ensure that the following general mandates are achieved:

- the Research Forest supports a dynamic NRFT program;
- the Research Forest is managed on principles of sustainability and total resource management; and
- the Research Forest continues to facilitate applied research and teaching.

The CNC Research Forest Society provides the required independent oversight with a broad, balanced membership and operates as a recognized Society governed under the *Society Act*. The CNCRFS achieves its purposes by providing direction on the Management Plan, approval of the annual CNC Research Forest budget, guidance on applied research and innovation, and by overseeing the financial proceeds of the Research Forest. The CNCRFS members, involved from April 2021 to March 2022, are listed in the Table 1, along with their affiliations outside of CNC.

Table 1: CNC Research Forest Society Membership and Board of Directors

Participant	Organization	Position within Organization
Kalin Uhrich, Chair	Canadian Forest Products Ltd.	Chief Forester BC Operations
Cheryl Hodder – Director-at-Large	Canadian Forest Products Ltd.	Forestry Superintendent
Tara Szerencsi, Secretary-Treasurer	CNC	VP – Finance and Corporate Services
Roy Rea – Director	University of Northern British Columbia	Senior Lab Instructor, Ecosystem Science and Management Program
Richard Reich - Director	CNC	NRFT Instructor and Researcher
James Jacklin – Director	Ministry of Forests	Regional Manager - Stewardship
Aiden Wiechula – Director	Strategic Natural Resource Consultants Inc.	Regional Manager
Dennis Johnson - Director	CNC	President

CNC Administration and Stewardship of Research Forest

While the CNCRFS provides general oversight and direction for the Research Forest, CNC continues as the sole holder of the provincial forest tenures authorizing the use of the Research Forest. CNC is therefore responsible for ensuring the provincial forest tenure agreements are followed, including implementation of an approved Management Plan, and for ensuring that the legislative and regulatory requirements governing the forestry operations are met. With the demands of substantial forestry operations, combined with general resource management and multiple active research and innovation projects, the CNC Research Forest office employment was increased in 2018. Since then, two full-time, Senior Research Assistants have been employed, Melissa Mjolsness, RFT and Vanessa Uschenko, RPBio, to support the existing full-time CNC Research Forest Manager, Carl Pollard, RPF.

To support unique student educational opportunities, work integrated learning and NRFT graduate work experience, Student Assistant positions are offered from spring to fall, each year. For the last 5 years, at least 2 NRFT students (current students or recent graduates) were hired, each year. In addition, NRFT students and recent graduates are commonly hired as assistants to support CNC applied research projects. These opportunities may span a few days up to multiple months. Where sufficient NRFT students or recent NRFT graduates are not available, CNC supports the hiring of current UNBC students studying natural resource sciences.

Research Assistants, Carter Reed (left) and Kerry Anderson (middle) with CNC Instructor, Greg Rose, September 2022.

CNC Research Forest Support of Applied Research and Innovation

CNCRFS Support to CNC Applied Research

Along with management oversight of the CNC Research Forest, the purposes of the CNCRFS includes conducting and supporting applied research (through the efforts of CNC employees) and providing opportunities for NRFT students to undertake or participate in applied research projects. The CNCRFS fulfills these purposes by providing the necessary direction and funding support to full-time CNC employees tasked with implementing applied research and related educational goals, including projects within and beyond the CNC Research Forest.

During 2021-22, the Society approved funding to hire additional CNC personnel to support an expanded applied research effort within and beyond the CNC Research Forest. The current result is the hiring of 3 additional full-time research employees who are devoted to rebuilding a robust applied research business unit, and establishing new applied research collaborations with Indigenous communities, natural resource stakeholders, industry and government agencies within the CNC region.

At the same time, CNC is maintaining employees dedicated to the management and administration of the research forest and the implementation of regular Research Forest activities that support CNC instructor involvement, student learning, and applied research relevant to the improved stewardship of the CNC Research Forest. This includes a regular

CNC Research Forest Society funding commitment to pay for CNC instructor time devoted to applied research projects.

This collective CNC employee effort and funding support from the CNC Research Forest Society is maintaining a continuous CNC capacity to undertake a breadth of applied research and innovation projects focused on natural resources and forestry while ensuring improved educational opportunities for NRFT students. For multiple years, this effort has allowed CNC to plan and implement a high number of concurrent applied research projects with regular CNC student involvement. In the upcoming years, CNC is expecting a significant increase in new applied research projects, involving external research funding and additional partners throughout the CNC Region.

Climate station installation within Research Forest Unit K (Willow River)

CNCRFS Supports Individual Applied Research and Innovation Requests

Beyond funding support for CNC employees and instructors, the CNCRFS continues to support individual requests for funding to implement various natural resource and forestry research projects. These requests may be both internal (within CNC) or from external partners and collaborators. In previous years, this included funding to support the following: provincial forest health studies conducted by CNC's Industrial Research Chair, multiple forestry innovation projects, and moose winter diet research.

Applied Research and Innovation Projects Supported by CNC Research Forest

During the 2021-22 fiscal year, the CNCRFS financial commitments towards applied research in natural resources and forestry, which includes funding for all CNC employees, CNC instructors, and various research project expenditures, was approximately $265,000.

Starting in 2023-24, the contributions to applied research will increase substantially (at least double) due to a CNC Research Forest Society commitment to fund the expansion of CNC applied research operations through additional hiring of new, full-time research positions.

Research Projects Implemented by the CNC Research Forest Office

A diverse range of applied research and innovation was supported by the CNCRFS and delivered via the CNC Research Forest office and NRFT instructors. A summary of these research projects is provided in Table 2, along with the key project collaborators and partners.

Table 2: Research Projects Implemented by the CNC Research Forest Office during 2022-23

Project Title	Partner(s) / Support	Description	Completed or Ongoing (Duration of Project)
Biodiversity and Wildlife Stewardship			
Western Toad Use of Temporary Roadside Ponds	Support provided from Mark Thompson, EcoLogic Consultants	Examination of roadside ponds for western toad use and reproduction. Involves enhancement treatments of 2 ponds. Includes examination of other amphibian species when detected.	Ongoing Full Report Available (Entering 4th Year of Multiple Year Study)
Western Toad Distribution within Harvested Landscapes	Support provided from Mark Thompson, EcoLogic Consultants	Surveys of western toad occupation within the Research Forest. Includes other amphibian species when detected.	Ongoing Full Report Available (Entering 4th Year of Multiple Year Study)

Post-Harvest Biodiversity and Wildlife Habitat Study	Support provided by UNBC, Ministry of Forests and Dunkley Lumber	Studying biodiversity and wildlife habitat use in differing post-harvest areas and distances from mature forest edge to aid future cutblock design	Ongoing Full Report Available (Entering 5th Year of Multiple Year Study)
Effectiveness of Post-Harvest Coarse Woody Debris Piling Treatments	Concept and support provided by Dexter Hodder, John Prince Research Forest	Study of animal uptake and use of post-harvest CWD piling, (particularly meso-carnivores), across multiple spruce beetle salvage cutblocks. Involves continual video monitoring	Ongoing Full Report Available (Entering 6th Year of Multiple Year Study)
Assessment and Monitoring of Moose Habitat within and adjacent to identified Moose Ungulate Winter Range	Support provided by Roy Rea, UNBC and Mike Klaczek, Ministry of Forests	Examining moose uptake and use of differing forested habitats within and adjacent to identified moose winter range	Project Update Report Available (Not continuing into 2022-23)
Plantation Treatments to Improve Biodiversity and Wildlife Habitat Function	Support and funding provided by SERNbc. Support and collaboration from Ministry of Forests and Dunkley Lumber	Examination of benefits and impacts to wildlife and timber supply by modifying plantations through harvesting very small openings and the removal of select trees.	Ongoing Entering 2nd Year of Multiple Year Study
Stream and Riparian Stewardship			
Post-Harvest Impacts to Small Streams and Riparian Areas	Support provided by Ministry of Forests and Dunkley Lumber	Evaluation of harvest impacts to and post-harvest recovery of small streams and their riparian areas	Ongoing Full Report Available (Entering 7th Year of Multiple Year Study)

Small Stream Water Temperature Monitoring	Support provided by Ministry of Forests and Dunkley Lumber	Study of changes in stream water temperature at deactivated and rehabilitated road crossings	Ongoing Report Available (Entering 6th Year of Multiple Year Study)
Forestry Operations – Spruce Beetle Management			
Experimental Trapping of Spruce Beetle – Testing Alternative Artificial Pheromone Lure Compositions	Support provided by Jeanne Robert, Ministry of Forests	Examining differences in spruce beetle capture among funnel traps with differing lure compositions.	Ongoing Full Report Available (Entering 2nd Year of Study)
Wood Shelf-Life in Spruce Beetle Epidemic	NSERC-funded. Support provided by Jeanne Robert, Ministry of Forests Previous industry support from Canfor, Sinclar Group & Conifex	Examination of growth and health trends in subalpine fir via dendrochronology. Includes external indicators of subalpine fir wood quality decline, post-mortality.	Full Reports Available. (Completed – 4 years of study)
Forestry Operations – Harvesting and Timber Growth and Yield			
Analysis of Commercial Thinning in Naturally Regenerated Stands	Willow River Demo. Forest Society, IFS and Freya Logging	Examination of timber growth/yield, and biodiversity response post commercial thinning	Ongoing Progress Report Available (Entering 4th Year of Multiple Year Study)
Conifer Seedling Survival and Performance			
Comparing Plant Ecology and Seedling Survival and Growth within Wildfire (Plantation Trial)	Implementation support provided by Dunkley Lumber	Examination of survival and performance of common and novel conifer tree species across a wildfire area and non-burned area within a cutblock	Ongoing Full Report Available (Entering 6th Year of Multiple Year Study)
Planting Quality - Impacts of Planting Faults on Seedling Survival and Growth (Plantation Trial)	Support provided by Dunkley Lumber	Study of effects of common planting faults on the survival and growth performance of spruce seedlings	Ongoing Full Report Available. Last Update is Outstanding (Completed – 6 Year Study)

Adaptation to Climate Change			
Soil Moisture Impacts under Climate Change	Support provided by Ministry of Forests, College of the Rockies	Long-term monitoring and study of soil moisture within forested sites for potential drought conditions.	Ongoing (Over 10 Years of Data Collection)

In addition to the projects described in Table 2, the Research Forest staff and NRFT instructors collaborated on the completion of one Ministry of Forests' research contract during 2022-23, which supported the Ministry's continuing climate change studies.

Experimental spruce beetle funnel trapping trial, 2022

New Research Installations

During the summer of 2022, new climate stations, with soil moisture monitoring, were established within Research Forest Units J (Blackwater), K (Willow River) and Unit L (Willow River). The data from these climate stations will provide reliable weather data for future research projects and support future climate change studies and analysis undertaken by the Ministry of Forests and CNC Instructor, Stephane Dube.

During the spring of 2022, additional trial plantation areas were added to Research Unit J. These trials involved the migration of spruce and lodgepole pine seedlings, which originated from the Interior Douglas-fir xh1 and Interior Cedar Hemlock mk1 subzones. These experimental trees will be compared against trees planted consistent with the provincial Chief Forester's seed transfer guidelines.

CNC NRFT Student Research Projects

Student involvement in research projects is a regular goal for the CNCRFS and CNC. All CNC NRFT students must complete a research project in their second year of study to graduate and to fulfill the Forest Professionals British Columbia accreditation requirements for Forest Technologists. The CNC Research Forest provides a multitude of readily accessible research options for NRFT students. With the lifting of safety protocols associated with COVID-19, the 2022-23 school year marked a return to regular student travel and involvement in Research Forest projects. This allowed 12 of the 15 2nd-year

NRFT students to be involved in Research Forest projects or research projects supported by Research Forest employees. The student research topics involving or relating to the Research Forest are summarized in Table 3. The other 3 students were involved in ongoing forest health research being led by CNC Instructor Richard Reich, whose activities are directly supported by Research Forest funding and employees.

Table 3: Student Research Projects related to CNC Research Forest

Research Project Subject Matter	Brief Explanation of Relationship to CNC Research Forest
Assessment of wildlife diversity in habitat types of varying structural complexity and distances to edge	All sample data taken from long-term sample areas established within or adjacent to salvage harvested areas within northern CNC Research Forest Units
Comparing plant biodiversity and coarse woody debris across stands of differing crown shading	All sample data taken from long-term sample areas established within or adjacent to salvage harvested areas within northern CNC Research Forest Units
Evaluating the occurrence of culturally significant vegetation within different forest stratums	All sample data taken from long-term sample areas established within or adjacent to salvage harvested areas within northern CNC Research Forest Units
Post-harvest ecosystem response within a commercial thinning treatment (SBSmk1)	Study areas and field sampling resulted from a collaboration between CNC Research Forest staff and Willow River Demonstration Forest Society
Effectiveness of Road Reclamation Practices in the SBSwk1	Study of soil properties and site productivity along rehabilitated roads within the CNC Research Forest
Assessing Modeled Climate Data in the CNC Research Forest Northern Units – A, B, C, D, E, F, and G	Climate modelling applied to locations within the CNC Research Forest, north of Prince George
Spruce and lodgepole pine site index sampling and adjustments within the CNC Research Forest	All study areas and sample data from CNC Research Forest

CNC Research Forest Support of CNC Natural Resources and Forest Technology Education

One of the primary mandates of the CNC Research Forest is to support a dynamic NRFT program that offers students eligibility as a Registered Forest Technologist with the Forest Professionals of British Columbia. For that reason, this report includes information regarding student involvement in the Research Forest, and ultimately the success of the NRFT program in providing valuable education, training, and job preparedness to students.

Continuing Professional Accreditation

The NRFT program continues the long tradition of being recognized by the Forest Professionals of British Columbia, allowing student graduates to immediately enroll as a Trainee Forest Technologist upon finding a qualified sponsor. Since 2018, NRFT graduates also qualify to enroll with the College of Applied Biology for potential recognition as a Registered Biology Technologist.

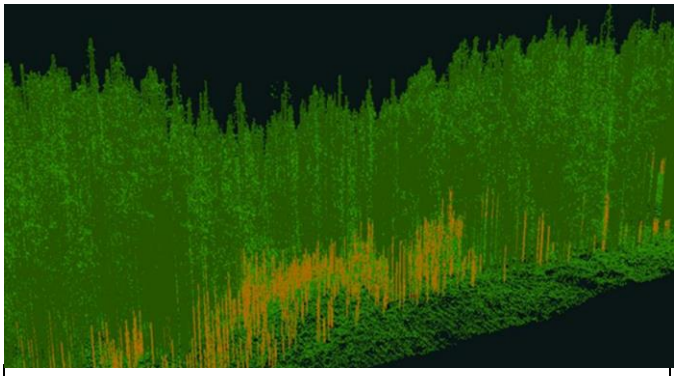
Student Involvement with the Research Forest

The CNC Research Forest continues to offer many options as an outdoor lab in support of CNC's NRFT program. As well, the natural resource data and associated planning activities for the Research Forest operations provide a rich source of material for student projects and activities, including high quality forest resource information such as:

- Detailed forest/vegetation inventory,
- Terrestrial ecosystem classification,
- Stream and fish inventory,
- Classified LiDAR data,
- LiDAR digital elevation and terrain models,
- High resolution digital stereo photography (with infrared imaging),
- High resolution digital orthophotos,
- High resolution UAV photographs and orthophotos,
- Detailed timber supply modelling,
- Multiple trial plantations,
- Multiple digital climate stations with soil moisture detection,
- Multiple long-term vegetation and tree sample plots,
- Multiple sites with multi-year digital video capture, and

- Multiple ongoing research projects and research installations

The CNC NRFT curriculum that has a focus on the CNC Research Forest land base and resource data includes: Fish and Wildlife, Silviculture, Logging, Engineering, Airphoto Interpretation, Resource Policy, Geographic Information Systems and Forest Health.



Stand imagery produced from LiDAR data within Research Forest Unit G

Access to a managed forest is an important aspect for the NRFT program, not only for research opportunities, but also to meet the field training requirements of a practical applied education program. Although some NRFT program exercises are conducted outside of the Research Forest, a significant number of student activities and demonstrations require regular and predictable access to a forest land base, which is offered by the long-term Research Forest tenure. Overall, the goal is to maintain or improve the educational opportunities and access within the Research Forest Units located closest to Prince George. The CNCRFS and CNC are also interested in further forested land opportunities closer to Prince George, which may improve the regular delivery of practical field education to NRFT students.

NRFT Student Enrollment and Employment

There were 15 full-time NRFT students that successfully completed all the courses to graduate this year. There are 15 students expected to return to the second year of the NRFT program during the fall of 2023. The fall of 2022 marked a significant return of NRFT students to the Research Forest to fully engage in field research data collection to support their applied research projects and reports.

For the fall of 2023, full enrollment of 22 new students is expected, as there are already 20 students fully registered with a significant waiting list for the remaining two positions. The previous high interest in the NRFT program has returned after the uncertainty created by COVID-19.

Employers from industry, government, and consultants started recruiting both first year and second year NRFT students during the fall of 2022, resulting in many students being offered employment 5 months in advance of their availability in May 2023. As in previous years, CNC remains confident that any NRFT graduate that is available for work will be able to find employment, both seasonal and permanent. Through the combined efforts of the CNC Research Forest, CNC Applied Research and Innovation operations, considerable

temporary employment opportunities have been regularly available for both CNC NRFT students and other post-secondary students studying forest resources.

Over multiple years, these research-related employment opportunities have substantially contributed to the natural resource training and work experience being offered through CNC, which is directly or indirectly linked to the CNCRFS and operation of the CNC Research Forest. In 2023, it is expected that 5 natural resource students will be hired for engagement in research related projects. During 2023/24, CNC and the CNC Research Forest Society are collaborating on significant, new funding to strengthen and renew the CNC capacity for new applied research in forest resources. With this new investment, the employment of CNC NRFT students and other natural resource students is expected to rise in 2024 and beyond.

Tour of CNC Research Forest during June 2022

Contributions and Enhancements to CNC NRFT from CNC Research Forest Revenue
For the 2022-23 fiscal year, student enrollment was well below capacity due to student attrition post-enrollment. A founding purpose of the Research Forest is to provide funding to stabilize the NRFT program in times of reduced enrollment. In recognition of the student attrition challenge during 2022-23, excess Research Forest revenues in the amount of approximately $207,000 was provided to CNC to account for the lack of total NRFT student tuition.

In addition to the contribution to CNC tuition, $31,100 was budgeted to support various expenses required by the NRFT program, along with $1,000 for scholarships and bursaries. The discretionary funding is largely intended to support field trips and conferences, which provides for NRFT student engagement with external agencies and businesses. The discretionary funding is also directed at subsidizing the cost for students to purchase iPads or computers, which are used for NRFT field exercises and the digital delivery of learning information.

Normally, about $37,000 would be budgeted to substantially subsidize NRFT student and instructor participation in a study abroad experience during May 2023, but due to continuing restrictions on travel at the beginning of the 2022/23 schoolyear, planning for

a spring 2023 study abroad did not proceed. It is anticipated that a study abroad opportunity will be available in the spring of 2024 providing there are no new travel restrictions associated with health and safety.

Forest Operations and Stewardship within CNC Research Forest

Continuous natural resource planning, timber harvesting and reforestation within the CNC Research Forest is fundamental in achieving the multitude of benefits discussed in this report. The following information is intended to show the annual efforts to undertake integrated natural resource management and sustainable forest stewardship within the Research Forest.

Partnership in Certified Sustainable Forest Management

Dunkley Lumber continues to provide the necessary expertise to coordinate and implement the critical harvesting, road building, and reforestation operations within the CNC Research Forest. Dunkley also maintains registration under the Sustainable Forestry Initiative's (SFI) Forest Management Standard, which includes the CNC Research Forest operations. Dunkley continues to build upon the legacy of a successful partnership in recognized, sustainable forest stewardship of the Research Forest.

SUSTAINABLE FORESTRY INITIATIVE
SFI-01156

Forest Resource Management Planning

A draft replacement Management Plan for the CNC Research Forest was prepared and made available for public, stakeholder, and First Nations review during the spring of 2023. The draft Management Plan is currently awaiting provincial consultation with affected First Nations. The new, draft Management Plan (the Plan) focusses on deriving educational and research benefits to NRFT students, while building upon Indigenous collaborations. The new Plan also focusses on further conservation of mature and old forest, among other forest stewardship efforts to support the maintenance, and if possible, improvement of forest ecosystem health and function. Considering the additional requirements to retain mature forest cover within the Research Forest, the new Plan includes new timber supply analysis projecting a much-reduced sustainable annual harvest.

An extension to the current Management Plan was recently requested while the new, draft Management Plan continues to be reviewed. The request potentially extends the existing Plan until June 2024, during which time harvest is restricted to ecosystem maintenance or potential improvement treatments in young second-growth stands.

Harvesting Operations

An experimental harvest was conducted during early winter (2022-23) within Research Forest Unit D. The harvest was designed to improve biodiversity and wildlife habitat within two 35-year old, second-ground spruce stands. The treatments were designed as small patches cuts interconnected with narrow (5m) trails. The prescribed harvested/treated area was small in order to maintain equally large, comparable control areas within each spruce stand. Besides the biodiversity goals, the timber objectives was to maintain non-damaged tree stocking that is expected to produce a feasible stand for lumber products at rotation age (when stand is approximately 75 to 80 years of age). The ecosystem and wildlife response post-harvest will be studied via camera monitoring and semi-permanent sample plots that were established pre-harvest.

Ponsee harvester falling and processing trees in partial cut (patch cut) within Research Forest Unit D, during December 2022.

Table 4: Summary of Harvesting within the CNC Research Forest during 2021-2022

Cutblock / Location	Total Cutblock Area (ha)	Maximum Harvest Area (ha)	Study Control Area (ha)	Cruise Net Volume (m^3)	Comments
D-101	20.2	8.2	19.9	1,307	Designed to study the biodiversity/wildlife and timber impacts of intentional harvest treatments to improve biodiversity within second-growth spruce stands.
D-102	14.0	5.6	11.2	980	Same as above

Timber Supply Management

Under the new, draft Management Plan there are new requirements for managing the age distribution of the forest, along with spatially identified mature and old forest retention areas. As a result, the new timber supply analysis projected a reduced sustainable cut of 13,200 m3/year in place of the 19,000 m3/year previously projected.

Intermediate-aged second-growth spruce stand in CNC Research Forest

Silviculture Activities

Reforestation

Where clearcutting is undertaken or where partial cutting retains less trees than the prescribed threshold, then planting of tree seedlings or cuttings is undertaken to reforest the area. The vast majority of the reforestation actively being managed is a result of the salvage harvesting of spruce beetle attacked timber from 2016 to 2019. Currently, CNC is managing approximately 3,400 ha of stands that are non-free growing, planted forests. The total amount of non-free growing area is expected to decrease steadily, each year in the foreseeable future, as substantial additional cutblock area is assessed for free growing, while comparatively little harvest area is added.

Contingency Funding for Reforestation Obligations

With the accumulation of large salvage harvesting areas since 2016, the CNCRFS has established a silviculture liabilities fund to cover the cost of outstanding silviculture activities necessary to achieve free growing standards on all harvested areas. This ensures that a portion of the surplus revenues from Research Forest operations will always be available to CNC or the Province to fulfill reforestation obligations, as necessary. The silviculture liability fund is expected to steadily

Free growing stand within Cutblock E-1 (Chuchinka Creek area)

decrease, each year, with the continual growth and assessment of planted cutblocks, while comparatively little harvest area is added annually,

Road Rehabilitation

All roads planned for short-term access are rehabilitated to maintain a high percentage of the Research Forest land base to contribute to the productive growth of forest ecosystems. There is no outstanding road rehabilitation remaining within the Research Forest as of the end of the 2022-23 year.

Contingency Funding for Road Maintenance/Deactivation Obligations

The CNC Research Forest has accumulated a notable amount of built roads with the salvage harvesting undertaken from 2016 to 2019. The long-term road maintenance obligations were substantially reduced by prescribing many roads as temporary and subsequently completing road rehabilitation. For the remaining permanent roads, the CNCRFS has established a contingency fund for continuing road liabilities. This ensures that a portion of the surplus revenues from Research Forest operations will always be available to either CNC or the Province to fulfill road maintenance or deactivation obligations, as necessary.

Winter road rehabilitation, Research Forest Unit K

Trial Plantations

Over time, the CNC Research Forest is accumulating multiple small trial plantations, generally involving novel conifer species or conifers from non-conventional seedlots. In order to ensure these trials may be easily identified and located, in the future, CNC is mapping these areas and submitting them to the provincial RESULTS database.

Non-free Growing Silviculture Obligations

The actively managed non-free growing cutblocks, which are largely a result of the spruce beetle salvage period of 2016 to 2019, are listed in Table 5, below.

Table 5: Summary of Non-free Growing Cutblocks within CNC Research Forest after 2022-23

Cutblock / Location	Year of Harvest	Remaining Treatments	Comments
West of Kerry Lake			
A-1	2014	Assess for FG	Pre-spruce beetle salvage
A-2	2017	Assess for FG	Spruce beetle salvage
A-3	2018	Assess for FG	Spruce beetle salvage
A-4	2018	Assess for FG	Spruce beetle salvage
A-5	2018	Assess for FG	Spruce beetle salvage
A-6	2018	Assess for FG	Spruce beetle salvage
A-8	2017	Assess for FG	Spruce beetle salvage
Tacheeda Lakes			
B-1	2017	Assess for FG	Spruce beetle salvage
B-2	2017	Assess for FG	Spruce beetle salvage
B-3	2019	Assess for FG	Spruce beetle salvage
B-4	2019	Site Prep Fill Plant Assess for RG Assess for FG	Spruce beetle salvage. Very heavy brush competition
B-5	2019	Assess for FG	Spruce and Douglas-fir beetle salvage
B-6	2019	Assess for FG	Spruce beetle salvage
Caine Creek			
C-1	2016	Assess for FG	Spruce beetle salvage
C-2	2017	Assess for FG	Spruce beetle salvage
C-3	2017	Assess for FG	Spruce beetle salvage

D-1	2016	Assess for FG	Spruce beetle salvage
D-2	2017	Assess for FG	Spruce beetle salvage
D-3	2016	Assess for FG	Spruce beetle salvage
D-4	2016	Assess for FG	Spruce beetle salvage
D-101	2022	Assess for retained stocking	Biodiversity/wildlife treatment in young second-growth stand
D-102	2022	Assess for retained stocking	Biodiversity/wildlife treatment in young second-growth stand
Chuchinka Creek			
E-2	2014	Assess for FG	Spruce beetle salvage
E-3	2016	Assess for FG	Spruce beetle salvage
E-4	2016	Assess for FG	Spruce beetle salvage
E-5	2017	Assess for FG	Spruce beetle salvage
E-6	2018	Assess for FG	Spruce beetle salvage
E-7	2018	Assess for FG	Spruce beetle salvage
E-8	2018	Assess for FG	Spruce beetle salvage
E-9	2019	Assess for FG	Spruce beetle salvage
E-10	2019	Assess for FG	Spruce beetle salvage
F-4	2015	Assess for FG	Spruce beetle salvage
F-5	2018	Assess for FG	Spruce beetle salvage
F-6	2018	Assess for FG	Spruce beetle salvage
F-7	2019	Assess for FG	Spruce beetle salvage

F-8	2018	Assess for FG	Spruce beetle salvage
F-9	2019	Assess for FG	Spruce beetle salvage
F-11	2018	Assess for FG	Spruce beetle salvage
Angusmac Creek			
G-2	2017	Assess for FG	Spruce beetle salvage
G-3	2016	Assess for FG	Spruce beetle salvage
G-4	2016	Assess for FG	Spruce beetle salvage
G-5	2017	Assess for FG	Spruce beetle salvage
G-6	2018	Fill Plant Assess for RG Assess for FG	Spruce beetle salvage. Very high herbaceous competition on lower slope
G-7	2017	Assess for FG	Spruce beetle salvage
G-8	2017	Assess for FG	Spruce beetle salvage
G-9	2017	Assess for FG	Spruce beetle salvage
G-10	2018	Assess for FG	Spruce beetle salvage
Blackwater			
J-3	2022	Assess for RG Assess for FG	Post-spruce beetle salvage. Designed similar to UWR harvesting
Willow River			
K-1	2021	Assess for FG	Post-spruce beetle salvage
K-2	2021	Assess for FG	Post-spruce beetle salvage

Reporting Forest Operations to Province

It is a regular CNC Research Forest commitment to complete annual provincial reporting of harvesting waste, along with new cutblock openings, stocking standards, forest inventory, declarations, and silviculture activities using the provincial RESULTS database. This includes spatial data submissions for cutblock openings, standard units, and forest inventory. With the completion of the harvesting during 2019-20, CNC has now harvested the following cutblocks under authority of the Research Forest tenures: A-1, A-2, A-3, A-4, A-5, A-6, A-8, B-1, B- 2, B-3, B-4, B-5, B-6, C-1, C-2, C-3, C-4, D-1, D-2, D-3, D-4, D-101, D-102, E-1, E-2, E-3, E-4, E-5, E-6, E-7, E-8, E-9, E-10, F-1, F-2, F-3, F-4, F-5, F-6, F-7, F-8, F-9, F-11, G-1, G-2, G-3, G-4, G-5, G-6, G-7, G-8, G-9, G-10, J-3, K-1 and K-2.

Planted trees surveyed in Cutblock A-2 during 2022

The partial harvesting recently completed within cutblocks D-101 and D-102 occurred within previously reported openings. The reporting expectations for the harvest activities and resulting post-harvest forest inventory is not, yet, confirmed. As well, the post-harvest assessment of the retained trees has not yet occurred as of the time of this report.

A report generated from RESULTS is included within Appendix A to demonstrate that provincial reporting of the cutblocks, listed in the previous paragraph, has occurred. In addition, CNC harvested three cutblocks under the authority of Woodlot W0210, which are now within the area under the Research Forest tenure. These cutblocks are also reported to RESULTS and included in Appendix A.

CNC Research Forest Annual Report #14
April 1, 2022 to March 31, 2023

Prepared by

July 6, 2023

_____ _____

Carl Pollard, RPF — Date
CNC Research Forest Manager

Appendix A: CNC Research Forest Cutblocks Reported to RESULTS Database

Openings Reported for Cutblocks Harvested Under CNC Research Forest (License-To-Cut L49404)
RESULTS Report Generated July 5th, 2023

Free Growing Report

Org Unit: DPG
Client Number:
Client Name:
Licence: L49404
Opening Category:

Due Start Date:
Received Start Date:
Declare Ind:

Due End Date:
Received End Date:

Page: 1 of 5
Date Printed: 2023.07.05 10:06:16
User ID: bceid_cpollard
Database: DBP01
Report ID: RSLTMilestone01
File:

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- *Months Left refers to the number of months remaining from the free growing declaration received date and the current reporting date. This is useful to determine whether SUs is within the 15 month assessment window.
- *Note: IDIR or RESULTS_CONV Received UserId requires manual verification of report received date to confirm the prescribed 15 month period.

Licensee: 00155179 00 COLLEGE OF NEW CALEDONIA District: DPG

License	Open Cat	Timber Mark	Cut Block	Opening ID	Map Ind	Line work	Gross Area	SU	BEC	NAR	Dist/ Comm Date	Months Left*	DMG	Regen Declare	EFG Due	LFG Due	FG Declared	FG Received	Received Userid	AMD
L49404	FTML	L49404	J-3	93G 047 0.0 539			38.6													
				1771485	Y	BCEID		1	SBS dw 3 01	35.7	2022-01-24				2034-01	2037-01				
					Y			2	SBS dw 3 07	1.7	2022-01-24				2031-01	2037-01				
L49404	FTML	L49404	K-1	93G 070 0.0 113			28.3													
				1751874	Y			1	SBS wk 1 01	28.3	2021-01-19		Y	2022-08-25	2030-01	2036-01				
L49404	FTML	L49404	K-2	93G 070 0.0 114			40.3													
				1751875	Y			1	SBS wk 1 01	32.8	2021-01-19		Y	2022-08-25	2030-01	2036-01				
					Y			2	SBS wk 1 06	7.5	2021-01-19		Y	2022-08-25	2030-01	2036-01				
L49404	FTML	L49404	D-1	93J 036 0.0 190			314													
				1688730	Y			1	SBS wk 1 01	251.1	2016-12-01		Y	2019-05-23	2025-12	2031-12				
					Y			2	SBS wk 1 08	58.3	2016-12-01		Y	2019-05-23	2025-12	2031-12				
L49404	FTML	L49404	D-2	93J 036 0.0 191			104.8													
				1688743	Y			1	SBS wk 1 01	73.0	2017-02-01		Y	2018-05-29	2026-02	2032-02				
					Y			2	SBS wk 1 08	30.9	2017-02-01		Y	2019-06-06	2026-02	2032-02				
L49404	FTML	L49404	G-4	93J 038 0.0 63			111.1													
				1688658	Y			1	SBS wk 1 01	109.7	2016-12-01			2019-05-14	2025-12	2036-12				Y
L49404	FTML	L49404	G-6	93J 038 0.0 64			144.4													
				1702602	Y			1	SBS wk 1 08	30.5	2018-01-30		Y	2021-08-24	2027-01	2033-01				Y
					Y			2	SBS wk 1 08	34.2	2018-01-30		Y		2027-01	2033-01				Y
					Y			3	ESSF wk 2 01	76.2	2018-01-30		Y	2021-08-24	2030-01	2038-01				Y
L49404	FTML	L49404	D-4	93J 046 0.0 121			22.2													
				1688657	Y			1	SBS wk 1 01	22.2	2016-11-01		Y	2018-05-29	2025-11	2031-11				
L49404	FTML	L49404	C-1	93J 046 0.0 122			163.6													
				1688725	Y			1	SBS wk 1 08	160.7	2016-12-01		Y	2018-05-30	2025-12	2031-12				
L49404	FTML	L49404	C-3	93J 046 0.0 123			30.8													
				1688726	Y			1	SBS wk 1 08	29.6	2017-02-01			2019-06-21	2026-02	2032-02				
L49404	FTML	L49404	D-3	93J 046 0.0 124			87.8													
				1688732	Y			1	SBS wk 1 01	44.5	2016-11-01		Y	2018-05-29	2025-11	2036-11				Y
					Y			2	SBS wk 1 08	42.9	2016-11-01		Y	2018-05-29	2025-11	2036-11				Y
L49404	FTML	L49404	C-2	93J 046 0.0 125			296.1													
				1690586	Y			1	SBS wk 1 08	280.7	2016-12-01		Y	2018-08-20	2025-12	2031-12				

Appendix A: CNC Research Forest Cutblocks Reported to RESULTS Database

Openings Reported for Cutblocks Harvested Under CNC Research Forest (License-To-Cut L49404)
RESULTS Report Generated July 5th, 2023

Free Growing Report

Org Unit: DPG
Client Number:
Client Name:
Licence: L49404
Opening Category:

Due Start Date:
Received Start Date:
Declare Ind:

Due End Date:
Received End Date:

Page: 2 of 5
Date Printed: 2023.07.05 10:06:16
User ID: bceid_cpollard
Database: DBP01
Report ID: RSLTMilestone01
File:

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- *Months Left refers to the number of months remaining from the free growing declaration received date and the current reporting date. This is useful to determine whether SUs is within the 15 month assessment window.
- *Note: IDIR or RESULTS_CONV Received UserId requires manual verification of report received date to confirm the prescribed 15 month period.

Licensee: 00155179 00 COLLEGE OF NEW CALEDONIA District: DPG

License	Open Cat	Timber Mark	Cut Block	Opening ID	Map Ind	Line work	Gross Area	SU	BEC	NAR	Dist/ Comm Date	Months Left*	DMG	Regen Declare	EFG Due	LFG Due	FG Declared	FG Received	Received Userid	AMD
					Y			2	SBS wk 1 07	10.0	2016-12-01		Y	2018-08-20	2025-12	2031-12				
L49404	FTML	L49404	G-1	93J 048 0.0 115			136.1													
				1626876	Y			1	SBS wk 1 01	122.0	2012-10-22	0	Y	2014-06-11	2021-10	2027-10	2021-10-22	2022-02-10	BCEID\ASUTHERLAND9	Y
					Y			2	SBS wk 1 07	13.9	2012-10-22	0	Y	2014-06-11	2021-10	2032-10	2021-10-22	2022-02-10	BCEID\ASUTHERLAND9	Y
L49404	FTML	L49404	F-4	93J 048 0.0 123			96.7													
				1672840	Y			1	SBS wk 1 01	70.0	2015-12-05			2018-05-30	2024-12	2030-12				
					Y			2	SBS wk 1 08	25.9	2015-12-05			2018-05-30	2024-12	2030-12				
L49404	FTML	L49404	G-3	93J 048 0.0 130			188.5													
				1688761	Y			1	SBS wk 1 01	132.1	2016-08-15		Y	2018-05-31	2025-08	2031-08				
					Y			2	SBS wk 1 08	52.2	2016-08-15		Y	2018-05-31	2025-08	2031-08				
L49404	FTML	L49404	G-2	93J 048 0.0 135			65.9													
				1702600	Y			1	SBS vk 05	63.6	2017-11-20			2021-07-17	2026-11	2032-11				Y
L49404	FTML	L49404	G-7	93J 048 0.0 136			63													
				1702607	Y			1	SBS vk 05	48.4	2017-11-27			2021-06-21	2026-11	2032-11				Y
					Y			3	ESSF wk 2 01	14.6	2017-11-27			2021-06-21	2029-11	2037-11				Y
L49404	FTML	L49404	G-8	93J 048 0.0 137			59.3													
				1702611	Y			1	SBS wk 1 01	41.1	2017-12-05			2021-06-17	2026-12	2032-12				Y
					Y			2	SBS vk 01	5.8	2017-12-05			2021-06-17	2026-12	2032-12				Y
					Y			3	SBS vk 05	10.2	2017-12-05			2021-06-17	2026-12	2032-12				Y
					Y			4	ESSF wk 2 01	1.4	2017-12-05			2021-06-17	2029-12	2037-12				Y
L49404	FTML	L49404	G-9	93J 048 0.0 138			52.4													
				1702613	Y			1	SBS wk 1 08	51.0	2017-12-20		Y	2021-06-10	2026-12	2032-12				Y
L49404	FTML	L49404	G-10	93J 048 0.0 139			65.4													
				1702616	Y			1	SBS wk 1 01	21.3	2018-01-04			2021-06-10	2027-01	2033-01				
					Y			2	SBS wk 1 07	41.8	2018-01-04			2021-06-10	2027-01	2033-01				
L49404	FTML	L49404	F-6	93J 048 0.0 146			87.8													
				1720287	Y			1	SBS wk 1 01	49.2	2018-11-01			2021-06-08	2027-11	2033-11				Y
					Y			2	SBS wk 1 08	35.3	2018-11-01			2021-06-08	2027-11	2033-11				Y

Appendix A: CNC Research Forest Cutblocks Reported to RESULTS Database

Openings Reported for Cutblocks Harvested Under CNC Research Forest (License-To-Cut L49404)
RESULTS Report Generated July 5th, 2023

Free Growing Report

Org Unit: DPG
Client Number:
Client Name:
Licence: L49404
Opening Category:

Due Start Date:
Received Start Date:
Declare Ind:

Due End Date:
Received End Date:

Page: 3 of 5
Date Printed: 2023.07.05 10:06:16
User ID: bceid_cpollard
Database: DBP01
Report ID: RSLTMilestone01
File:

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L49404	FTML	L49404	F-5	93J 048 0.0 147		16.7													
				1720291	Y		1	SBS wk 1 01	11.5 2018-11-01			2021-06-08	2027-11	2033-11					
					Y		2	SBS wk 1 08	5.2 2018-11-01			2021-06-08	2027-11	2033-11					
L49404	FTML	L49404	G-5	93J 048 0.0 148		104.7													
				1720581	Y		1	SBS wk 1 01	58.7 2017-11-20		Y	2021-08-23	2026-11	2032-11					Y
					Y		3	ESSF wk 2 01	45.5 2017-11-20		Y	2021-08-23	2029-11	2037-11					Y
L49404	FTML	L49404	F-11	93J 048 0.0 153		8.5													
				1722430	Y		1	SBS wk 1 08	8.1 2018-10-01		Y	2021-06-07	2027-10	2033-10					
L49404	FTML	L49404	F-7	93J 048 0.0 157		41.7													
				1730190	Y		1	SBS wk 1 01	4.3 2019-03-18		Y	2021-06-08	2028-03	2039-03					Y
					Y		2	SBS wk 1 08	37.4 2019-03-18		Y	2021-06-08	2028-03	2039-03					Y
L49404	FTML	L49404	F-9	93J 048 0.0 158		58													
				1730191	Y		1	SBS wk 1 01	58.4 2019-03-18		Y	2021-06-07	2028-03	2039-03					Y
L49404	FTML	L49404	E-1	93J 058 0.0 115		97.1													
				1626636	Y		1	SBS wk 1 01	25.4 2010-11-01	0		2012-05-28	2019-11	2025-11	2020-06-08	2020-12-22	BCEID\ASUTHERLAND9		
					Y		2	SBS wk 1 08	71.8 2010-11-01	0		2012-05-28	2019-11	2025-11	2020-06-08	2020-12-22	BCEID\ASUTHERLAND9		
L49404	FTML	L49404	F-1	93J 058 0.0 116		63.8													
				1626656	Y		1	SBS wk 1 01	13.5 2011-01-01	0	Y	2013-09-04	2020-01	2026-01	2020-06-08	2020-12-22	BCEID\ASUTHERLAND9		
					Y		2	SBS wk 1 08	48.5 2011-01-01	0	Y	2013-09-04	2020-01	2026-01	2020-06-08	2020-12-22	BCEID\ASUTHERLAND9		
L49404	FTML	L49404	F-2	93J 058 0.0 117		86.7													
				1626657	Y		1	SBS wk 1 04	2.6 2011-01-01	0	Y	2013-09-04	2011-01	2026-01	2020-06-04	2020-12-22	BCEID\ASUTHERLAND9		
					Y		2	SBS wk 1 08	84.0 2011-01-01	0	Y	2013-09-04	2020-01	2026-01	2020-06-04	2020-12-22	BCEID\ASUTHERLAND9		
L49404	FTML	L49404	F-3	93J 058 0.0 118		119													
				1626780	Y		1	SBS wk 1 08	119.0 2011-10-24	1.0587	Y	2014-06-11	2020-10	2026-10	2022-06-22	2023-02-23	BCEID\ASUTHERLAND9		
L49404	FTML	L49404	E-4	93J 058 0.0 119		11.5													
				1672822	Y		1	SBS wk 1 01	9.0 2016-01-15		Y	2018-05-29	2025-01	2031-01					
					Y		2	SBS wk 1 08	2.5 2016-01-15		Y	2018-05-29	2025-01	2031-01					
L49404	FTML	L49404	E-3	93J 058 0.0 120		53.8													
				1672830	Y		1	SBS wk 1 01	34.5 2016-01-01		Y	2018-05-29	2025-01	2031-01					
					Y		2	SBS wk 1 08	19.3 2016-01-01		Y	2018-05-29	2025-01	2031-01					
L49404	FTML	L49404	E-2	93J 058 0.0 121		95.7													

Appendix A: CNC Research Forest Cutblocks Reported to RESULTS Database

Openings Reported for Cutblocks Harvested Under CNC Research Forest (License-To-Cut L49404)
RESULTS Report Generated July 5th, 2023

Free Growing Report

Org Unit: DPG
Client Number:
Client Name:
Licence: L49404
Opening Category:

Due Start Date:
Received Start Date:
Declare Ind:

Due End Date:
Received End Date:

Page: 4 of 5
Date Printed: 2023.07.05 10:06:16
User ID: bceid_cpollard
Database: DBP01
Report ID: RSLTMilestone01
File:

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Licensee: 00155179 00 COLLEGE OF NEW CALEDONIA **District:** DPG

License	Open Cat	Timber Mark	Cut Block	Opening ID	Map Ind	Line work	Gross Area	SU	BEC	NAR	Dist/ Comm Date	Months Left*	DMG	Regen Declare	EFG Due	LFG Due	FG Declared	FG Received	Received Userid	AMD
				1672846	Y			1	SBS wk 1 01	50.4	2015-12-15		Y	2018-05-29	2024-12	2030-12				
					Y			2	SBS wk 1 08	45.4	2015-12-15		Y	2018-05-29	2024-12	2030-12				
L49404	FTML	L49404	E-8	93J 058 0.0 125			32.3													
				1702609	Y			1	SBS wk 1 01	19.9	2018-02-01		Y	2020-06-09	2027-02	2033-02				
					Y			2	SBS wk 1 08	11.9	2018-02-01		Y	2020-06-09	2027-02	2033-02				
L49404	FTML	L49404	E-7	93J 058 0.0 126			15.7													
				1702615	Y			1	SBS wk 1 01	15.1	2018-02-15			2020-06-09	2027-02	2033-02				
L49404	FTML	L49404	E-5	93J 058 0.0 129			35.3													
				1720284	Y			1	SBS wk 1 08	34.8	2017-12-01		Y	2020-06-09	2026-12	2032-12				Y
L49404	FTML	L49404	E-6	93J 058 0.0 130			36.8													
				1720285	Y			1	SBS wk 1 08	36.8	2018-07-01		Y	2020-06-08	2027-07	2033-07				Y
L49404	FTML	L49404	F-8	93J 058 0.0 131			25													
				1720296	Y			1	SBS wk 1 08	24.9	2018-10-01		Y	2021-06-07	2027-10	2033-10				
L49404	FTML	L49404	E-9	93J 058 0.0 133			12.5													
				1741778	Y			1	SBS wk 1 04	9.8	2019-03-07		Y	2022-06-23	2019-03	2039-03				
					Y			2	SBS wk 1 08	2.7	2019-03-07		Y	2022-06-23	2019-03	2039-03				
L49404	FTML	L49404	E-10	93J 058 0.0 134			9.9													
				1741899	Y			1	SBS wk 1 01	8.0	2019-03-07		Y	2022-06-23	2019-03	2039-03				
					Y			2	SBS wk 1 07	1.9	2019-03-07		Y	2022-06-23	2019-03	2039-03				
L49404	FTML	L49404	A-1	93J 066 0.0 131			133.8													
				1645340	Y			1	SBS wk 1 01	133.8	2014-11-25		Y	2016-08-17	2014-11	2034-11				
L49404	FTML	L49404	A-8	93J 066 0.0 136			32.3													
				1702605	Y			1	SBS wk 1 08	31.0	2017-06-01			2019-06-13	2026-06	2032-06				
L49404	FTML	L49404	A-2	93J 066 0.0 137			71													
				1702606	Y			1	SBS wk 1 08	68.4	2017-06-01			2019-06-13	2026-06	2032-06				
L49404	FTML	L49404	A-6	93J 066 0.0 138			38.1													
				1720281	Y			1	SBS wk 1 01	4.5	2018-09-15		Y	2020-06-08	2027-09	2033-09				
					Y			2	SBS wk 1 08	32.8	2018-09-15		Y	2020-06-08	2027-09	2033-09				
L49404	FTML	L49404	A-4	93J 066 0.0 139			32.3													
				1720331	Y			1	SBS wk 1 08	32.4	2018-06-15		Y	2020-06-03	2018-06	2033-06				Y

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Openings Reported for Cutblocks Harvested Under CNC Research Forest (License-To-Cut L49404)
RESULTS Report Generated July 5th, 2023

Free Growing Report

Org Unit: DPG
Client Number:
Client Name:
Licence: L49404
Opening Category:

Due Start Date:
Received Start Date:
Declare Ind:

Due End Date:
Received End Date:

Page: 5 of 5
Date Printed: 2023.07.05 10:06:16
User ID: bceid_cpollard
Database: DBP01
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L49404	FTML	L49404	A-5	93J 066 0.0 140			103.6											
				1720332	Y		1	SBS wk 1 01	96.0	2018-05-15	Y	2020-06-03	2018-05	2033-05			Y
					Y		2	SBS wk 1 08	5.2	2018-05-15	Y	2020-06-03	2018-05	2033-05			Y
L49404	FTML	L49404	A-3	93J 066 0.0 141			47.6											
				1720335	Y		1	SBS wk 1 08	46.4	2018-06-07	Y	2020-06-03	2027-06	2033-06			
L49404	FTML	L49404	B-1	93J 068 0.0 56			108.4											
				1688656	Y		1	SBS wk 1 01	29.6	2017-01-01	Y	2019-09-04	2026-01	2032-01			
					Y		2	SBS wk 1 08	76.7	2017-01-01	Y	2019-09-04	2026-01	2032-01			
L49404	FTML	L49404	B-6	93J 068 0.0 59			10.7											
				1720288	Y		1	SBS wk 1 08	6.8	2019-01-01	Y	2021-10-04	2028-01	2034-01			
					Y		2	SBS wk 1 01	3.9	2019-01-01	Y	2021-10-04	2028-01	2034-01			
L49404	FTML	L49404	B-4	93J 068 0.0 60			21.2											
				1720289	Y		1	SBS wk 1 08	21.2	2019-02-15	Y		2028-02	2034-02			Y
L49404	FTML	L49404	B-3	93J 068 0.0 61			74.9											
				1720293	Y		1	SBS wk 1 01	56.9	2019-02-01	Y	2022-06-09	2028-02	2034-02			Y
					Y		2	SBS wk 1 08	16.6	2019-02-01	Y	2022-06-09	2028-02	2034-02			Y
L49404	FTML	L49404	B-5	93J 068 0.0 62			21.4											
				1720294	Y		1	SBS wk 1 01	5.6	2019-02-01		2021-10-04	2028-02	2034-02			
					Y		2	SBS wk 1 08	14.4	2019-02-01		2021-10-04	2028-02	2034-02			
					Y		3	SBS wk 1 10	1.5	2019-02-01		2021-10-04	2028-02	2034-02			
L49404	FTML	L49404	B-2	93J 068 0.0 63			117.9											
				1722431	Y		1	SBS wk 1 08	115.5	2017-07-01		2020-06-02	2026-07	2032-07			Y
	Client Total: 00155179					3935.0	89		3880.3									
	District Total: DPG					3935.0	89		3880.3									
	Grand Total:					3935.0	89		3880.3									

Appendix A: CNC Research Forest Cutblocks Reported to RESULTS Database

Openings Reported for Cutblocks Harvested under Woodlot License W0210 (Now part of CNC Research Forest), RESULTS Report Generated June 25th, 2021

Free Growing Report

Org Unit: DPG - Prince George Natural
Client Number:
Client Name:
Licence: W0210
Opening Category:

Due Start Date:
Received Start Date:
Declare Ind:

Due End Date:
Received End Date:

Page: 1 of 1
Date Printed: 2021.06.25 14:17:59
User ID: bceid_cpollard
Database: DBP01
Report ID: RSLTMilestone01
File:

- SUs declared in ISIS will have a default of '2003-11' Free Growing Declaration Received date.
- *Months Left refers to the number of months remaining from the free growing declaration received date and the current reporting date. This is useful to determine whether SUs is within the 15 month assessment window.
- *Note: IDIR or RESULTS_CONV Received UserId requires manual verification of report received date to confirm the prescribed 15 month period.

Licensee: 00042386 00 THE COLLEGE OF NEW District: DPG

License	Open Cat	Timber Mark	Cut Block	Opening ID	Map Ind	Line work	Gross Area	SU	BEC	NAR	Dist/ Comm Date	Months Left*	Regen Declared	EFG Due	LFG Due	FG Declared	FG Received	Received Userid	AMD
W0210	FTWL	WL210A	1	93G 070 0.0	77		19.2												
				35053	Y	ROSC		1	SBS j 1 01	15.9	1989-06-01	0	1993-08-25	1998-06	2005-06	2006-06-16	2008-07-25	IDIR\RSTORLA	N
					Y			2	SBS j 1 01	2.1	1989-06-01		1993-08-25	1998-06	2005-06				N
W0210	FTWL	W0210B	1	93G 070 0.0	95		12.1												
				35638	Y	BCEID		A	SBS wk 1 01	8.4	1995-11-01	0	1997-01-01	2007-11	2010-11	2010-06-14	2011-02-07	IDIR\MLESTER	Y
					Y			B	SBS wk 1 07	2.9	1995-11-01	0	1997-01-01	2004-11	2010-11	2010-06-14	2011-02-07	IDIR\MLESTER	Y
W0210	FTWL			93G 079 0.0	79		16.5												
				1386754	Y			1	SBS mk 1	79.1	2003-02-01	0		2003-02	2018-02	2018-01-24	2018-01-31	BCEID\HPRASMUSSEN	Y
					Y			2	SBS mk 1	12.2	2003-02-01	0		2003-02	2018-02	2018-01-24	2018-01-31	BCEID\HPRASMUSSEN	Y
Client Total: 00042386							47.8	6		120.6									
District Total: DPG							47.8	6		120.6									
Grand Total:							47.8	6.0		120.6									