



AGENDA

Ordinary meeting of the

Forestry Advisory Group

**Tuesday 12 June 2018
Commencing at 3.00p.m.
Ruma Mārama
Floor 2A, Civic House
110 Trafalgar Street, Nelson**

Membership: Chairperson John Murray (Chairperson), Her Worship the Mayor Rachel Reese, Councillor Luke Acland, Mr Alec Louverdis and Mr Peter Gorman

Guidelines for councillors attending the meeting, who are not members of the Committee, as set out in Standing Order 12.1:

- All councillors, whether or not they are members of the Committee, may attend Committee meetings
- At the discretion of the Chair, councillors who are not Committee members may speak, or ask questions about a matter.
- Only Committee members may vote on any matter before the Committee

It is good practice for both Committee members and non-Committee members to declare any interests in items on the agenda. They should withdraw from the room for discussion and voting on any of these items.

1. Apologies

- 1.1 An apology has been received from Councillor Acland

2. Confirmation of Order of Business**3. Interests**

- 3.1 Updates to the Interests Register
- 3.2 Identify any conflicts of interest in the agenda

4. Public Forum**5. Confirmation of Minutes**

- 5.1 15 March 2018 **5 - 9**

Document number M3339

Recommendation

That the Forestry Advisory Group

Confirms the minutes of the meeting of the Forestry Advisory Group, held on 15 March 2018, as a true and correct record.

6. Chairperson's Report

- 7. Forestry Update - Number 4 - June 2018 **10 - 36****

Document number R9152

Recommendation

That the Forestry Advisory Group

Receives the report Forestry Update - Number 4 - June 2018 (R9152) and its attachments (A1959057, A1969488, A1969507 and A1969491); and

Approves the revised specific site plans as presented by LandVision at the 12 June 2018 Forestry Advisory Group meeting relating to Alternate Use of the stands to be retired from commercial forestry; and

Approves the priority and timeline, as presented by LandVision, for implementing the specific site plans relating to Alternate Use of the stands to be retired; and

Approves that Block 42.06 (Marsden – Douglas Fir) not be cleared until the trees can be commercially harvested as per A1959057 of report R9152; and

Approves the specific site management plan for the "Tantragee block" as per A1969488 of report R9152, and that work on this be implemented at an estimated cost of \$63,000 without delay.



Minutes of a meeting of the Forestry Advisory Group

Held in the Ruma Mārama, Floor 2A, Civic House, 110 Trafalgar Street, Nelson

On Thursday 15 March 2018, commencing at 2.32pm

Present: Chairperson J Murray (Chairperson), Her Worship the Mayor R Reese, Mr A Louverdis (Group Manager Infrastructure) and Mr P Gorman (Independent Forestry Expert)

In Attendance: Group Manager Corporate Services (N Harrison), LandVision Director (L Grant), PF Olsen Nelson Branch Manager (S Nuske), PF Olsen Forestry Adviser (D Fincham) and Governance Adviser (J Brandt)

Apology: Councillor Acland

1. Apologies

Resolved FAG/2018/001

That the Forestry Advisory Group

Receives and accepts an apology from Councillor Acland.

Murray/Her Worship the Mayor Carried

2. Confirmation of Order of Business

There was no change to the order of business.

3. Interests

Her Worship the Mayor noted an interest regarding block 28.01 discussed as part of item 5.

4. Confirmation of Minutes

4.1 15 November 2017

Document number M3126, agenda pages 5 - 8 refer.

Resolved FAG/2018/002

That the Forestry Advisory Group

Confirms the minutes of the meeting of the Forestry Advisory Group, held on 15 November 2017, as a true and correct record.

Her Worship the Mayor/Murray

Carried

5. Forestry update - Number 3 - March 2018

Document number R8888, agenda pages 9 - 32 refer.

The Group Manager Infrastructure, Alec Louverdis, spoke to his report and answered questions.

The meeting requested that officers include in the next report the analysis work that led to the change in direction from the initial decision to harvest plot 42.06 in Marsden Valley to defer harvest for a decade.

A correction for page 11 of the agenda was noted where the Brook stand was wrongly being referred to as block 29.01. The name Tantragee block was to be used instead. Work on this block had commenced and further options might emerge over the following two months for planning the consultation process.

The Brook block 21.05 was discussed and it was noted that communication with key stakeholders needed to occur prior to felling to waste.

It was requested that the Property Parks and Facilities Asset Manager be invited to a future Forestry Advisory Group meeting to give an overview as to plans and intentions in regards to future recreational use for the forestry areas.

Health and Safety was discussed. The GM Infrastructure undertook to organise a Safe Work Observation visit for the advisory group members once a block closer to town was being worked on. PF Olsen was asked to include two additional headers in its quarterly report, i.e. compliance with Resource Consents and the New Environmental National Standards.

Mr Grant from LandVision tabled his report entitled *Nelson City Council Forestry Alternative Management* (A1931943) and spoke to the Powerpoint presentation (A1931941) regarding areas requiring alternate uses.

The Forestry Advisory Group went through the report page by page to vet the proposed consultation lists. The following advice was given regarding additional consultation that may be required:

Brook forest blocks

Block 22.01: Check with the Planning and Regulatory team regarding heritage related interests that may exist in the area.

Block: 22.02: Advise land owners of Council's preferred option after consulting with the council communications team regarding appropriate messaging.

Blocks 22.03/22.04/22.05/22.06/22.09: Add consultation with Planning and Regulatory team and Biodiversity Forum to the list.

Consultation with Iwi was discussed and it was noted that consultation should occur where there was Iwi land adjoining council owned blocks, with a view to exploring partnership opportunities.

Block 22.08: No change.

Block 25.01: No change.

Blocks 26.01/26.02/26.04/26.07: Consultation with adjoining landowners was recommended as well as exploration of partnership funding with developers, as the area acted as a buffer between the landfill and the subdivisions.

Blocks 26.05/26.06: Same as previous, also next to the landfill. Noted that the decision regarding the future landfill site would dictate future use and a decision would need to be made at that time.

Block 28.01: Her Worship the Mayor declared an interest and did not participate in discussion of this block. It was agreed that consultation should include adjoining land owners. It was noted that public interest would be great once harvesting was to occur.

Block 21.04: No change. Noted that parts were harvested recently.

Maitai forest blocks

Block 1.04: Consultation to include Iwi due to close proximity to the Maitai river. Noted that options on how to remove trees would need to be investigated, including a buffer zone to allow for access. It was further recommended to consult with Infrastructure due to the proximity of the area to the road.

The Advisory Group noted their preference to work towards 100% compliance with the new National Environmental Standards for Plantation Forestry.

Noted that the next step would be for Mr Grant to talk to Leigh Marshall in the Environmental Programmes team.

Block 2.01: No consultation needed.

Block 2.02: No consultation needed but conversation with Infrastructure team to be had if action was to occur, as the block is next to public road.

Attendance: The Group Manager Infrastructure left the meeting at 4.11p.m.

Blocks 4.03 to 4.13: Consultation with Infrastructure was recommended. If the river was affected, then also consultation with Iwi.

Blocks 5.01/5.02/7.02: Consultation to involve the Parks and Reserves and Planning and Regulatory teams at Council.

Block 8.01: No change.

Attendance: The Group Manager Infrastructure returned to the meeting at 4.16p.m.

Blocks 9.01/10.01: No change

Block 10.02: Internal discussion to be had.

Marsden Valley forest blocks

Blocks 41.01/44.01: No change.

Block 42.06: More information to come back to the meeting.

Roding area forest block

Block 54.02: No change.

The Advisory Group voiced an interest in further exploring apiculture as a future business model where Council was replanting in Manuka. P F Olsen might be able to bring back some information, e.g. required minimum size for an economic model. It was noted that the hives currently in place were privately owned.

Mr Grant from LandVision spoke to a presentation (A1931941) entitled *One Billion Trees* and noted that it was the Government's ambition to replant natives and exotics in traditional and innovative locations on a national scale. He further noted that Nelson City Council was unlikely to be able in a position to partake in this scheme, as the land owned by Nelson City Council did not fit the criteria. However, Mr Grant noted that some riparian strips could be suitable and Nelson City Council could hold conversations with land owners to encourage their participation.

Resolved FAG/2018/003

That the Forestry Advisory Group

Receives the report Forestry update - Number 3 - March 2018 (R8888) and its attachments (A1739267, A1849406, A1561381, A1908827 and A1908918); and

Directs officers to consult further with council staff and bring back revised specific site plans, present a timeline and prioritise the blocks for implementation.

Murray/Her Worship the Mayor

Carried

Attachments

- 1 A1931941 - Nelson City Council Forestry - Alternative Uses - LandVision presentation
- 2 A1931943 - Nelson City Council Forestry - Alternative Management - Report - LandVision March 2018
- 3 A1931942 - One Billion Trees

There being no further business the meeting ended at 4.33pm.

Confirmed as a correct record of proceedings:

_____ Chairperson _____ Date

Forestry Update - Number 4 - June 2018

1. Purpose of Report

- 1.1 To provide an update to the Forestry Advisory Group (Group) on forestry activities since Council adopted the Forestry Review recommendations in September 2016 and since the last March 2018 update.
- 1.2 To approve the Alternate Use plans.
- 1.3 To approve the Tantragee block harvesting plan.

2. Recommendation

That the Forestry Advisory Group

Receives the report Forestry Update - Number 4 - June 2018 (R9152) and its attachments (A1959057, A1969488, A1969507 and A1969491); and

Approves the revised specific site plans as presented by LandVision at the 12 June 2018 Forestry Advisory Group meeting relating to Alternate Use of the stands to be retired from commercial forestry; and

Approves the priority and timeline, as presented by LandVision, for implementing the specific site plans relating to Alternate Use of the stands to be retired; and

Approves that Block 42.06 (Marsden – Douglas Fir) not be cleared until the trees can be commercially harvested as per A1959057 of report R9152; and

Approves the specific site management plan for the "Tantragee block" as per A1969488 of report R9152, and that work on this be implemented at an estimated cost of \$63,000 without delay.

3. Update

Commercial Forestry

- 3.1 Harvesting is due to re-commence in the Roding forest in May 2018 and will continue until late 2018. Preliminary planning is underway for harvesting in the Maitai forestry blocks which is planned to commence in the winter of 2019.

Douglas Fir and Acacia harvesting and poisoning

- 3.2 Progress is detailed below.

Block	Stand	Species	Status	Area
Brook	22.03	D fir	Harvesting complete	5.8
Brook	22.08	D fir	In planning. To be undertaken in conjunction with privately owned adjacent forest block but no timeframe has been provided by their harvester.	3.4
Maitai	4.04	D fir	Harvesting completed	2.2
Maitai	4.13	D fir	Poisoning commenced	0.5
Maitai	9.01	D fir	Part harvested - 3 Ha remaining. Progress awaiting outcome of alternate use debate	4.3
Maitai	10.01	D fir	Poisoned	1.8
Maitai	4.08	Acacia	Poisoned	1.3
Marsden	42.06	D fir	(*)	20.3
Marsden	44.01	D fir	Within Cemetery block - summer harvesting only and pending contractor availability	0.5
Roding	55.03	Acacia	Completed	4.6

- 3.3 * It was reported at the last Group meeting that harvesting of this block has been delayed until the block can deliver a commercial return (likely in 5-10 years' time). In addition, felling to waste of such a large block will create a visual impact for the city backdrop and will pose an extreme fire risk and hence is not recommended.
- 3.4 The Group asked the team to confirm or further analyse their previous risk assessment of leaving this block until the trees can be commercially harvested. This was to take into account the surrounding trees and to use any work that had previously been done to minimise the cost including work done by Nick Ledgard. The assessment has been carried out and the report is appended at Attachment 1.
- 3.5 The recommendation from PF Olsen and Peter Gorman is that:

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Council agree to remove the Douglas fir in stand 42.06 by harvesting when this can be carried out without incurring a net cost to the Council. This is expected to be after 2022.

Other

FAG resolutions	Progress
Approves the felling to waste of the remaining Brook block 21/05 at an estimated cost of \$10,000. This block adjoins the Brook Waimarama Sanctuary	Will include both poisoning and fell to waste. Will need to take place during low public use and will be co-ordinated with MTB and BWST. Poisoning has commenced – felling to follow consultation.
Approves that the “Tantragee Block” (Brook) be harvested/felled to waste/poisoned, with urgency, to address health and safety concerns, subject to approval of a site specific plan from the Independent Forestry Expert	PF Olsen has prepared a site specific management plan for this block (see Attachment 2) with input from Mr Peter Gorman. Option 1 is the recommended option (combination of poisoning and breaking down/felled to waste) at an estimated cost of \$63,000. These operations will be undertaken in accordance with environmental best practice.

Health and Safety

- 3.6 No Safe Work Observations (SWO) were undertaken by officers for this period. A joint SWO with the entire Group will be planned for next winter when Maitai harvesting work re-commences.
- 3.7 Council’s Health and Safety Adviser (Organisational Assurance and Emergency Management) has met with PF Olsen to view their online Health and Safety system. This meeting provided assurance that PF Olsen understand their duties under the Health and Safety at Work Act 2015 and have a comprehensive health and safety system in place.

Finance

- 3.8 Harvesting net revenue to date is \$2.226M against the revised full year budget of \$2.4M. The projected full year net revenue is \$2.57M.

4. 5-Year Harvesting Plans

- 4.1 Whilst the 5-year harvesting plans were approved by the Group in November 2017, the Group also endorsed a flexible approach that would allow the plans to change to reflect circumstances (e.g. export and domestic markets). The November 2017 report noted that there would

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be inevitable tweaks to the 5 year harvesting plans and that the Group would be notified by email of these changes.

- 4.2 PF Olsen propose a change in the harvesting plans involving the delay in harvesting of a number of Maitai stands to 2019/2020, so as to allow for in-depth planning to achieve Council's desire to have the best possible environmental performance under the new NES – Plantation Forestry. Refer to Attachment 3 for the revised plan.
- 4.3 Attachment 4 shows the PF Olsen Quarterly Forestry report (Jan–31 March 2018).

5. Alternate Uses

- 5.1 Council agreed to retire some 140Ha of forestry and consider alternate uses. The Group resolved at the March 2018 meeting as below.

Directs officers to consult further with council staff and bring back revised specific site plans, present a timeline and prioritise the blocks for implementation

- 5.2 Lachie Grant (LandVision) will be in attendance to discuss this further work.
- 5.3 Replanting and weed control has been provided in the Parks and Active Recreation activity and Landscapes Reserves sub-activity in the Long Term Plan. Both Council and PF Olsen are aware of the public visibility and scrutiny relating to sedimentation caused as a result of forestry activities and once the Group has signed off the alternate use for those blocks that need revegetation that work will commence with urgency.
- 5.4 Council is also investigating access to the Government's 1 Billion Tree Fund.

6. Forestry Stewardship Council Accreditation (FSC)

- 6.1 The Group in November 2017 resolved:

Approves, in principle, that Nelson City Council join the Forestry Stewardship Council Accreditation scheme and approves PF Olsen undertaking work to prepare the management plan at an upper estimated cost of \$10,000.

- 6.2 PF Olsen has commenced the work with initial consultation with Nelson officers complete. The next stage is to progress with wider consultation with that feedback to be included in the final plan before seeking accreditation. PF Olsen will now prepare the consultation document and will bring that back to the Group for sign-off before consultation commences. Once consultation commences work will be on a time writing basis. PF Olsen will be in attendance to provide an update.

7. Conclusion

- 7.1 This is the fourth update report since the Group was officially approved with Terms of Reference.

Alec Louverdis

Group Manager Infrastructure

Attachments

Attachment 1: A1959057 - Marsden Block Stand 42.06 [↓](#)

Attachment 2: A1969488 - Tantragee Hazardous Tree Management May 2018
[↓](#)

Attachment 3: A1969507 - Change in Harvesting [↓](#)

Attachment 4: A1969491 - Nelson City Council Quarterly Forestry Report -
January to March 2018 [↓](#)

Important considerations for decision making
1. Fit with Purpose of Local Government The regular updates will support the effective and efficient management of Council's productive forests.
2. Consistency with Community Outcomes and Council Policy The FAG aligns with the following outcomes - Our Council provides leadership and Our Council is supported by an innovative and sustainable economy.
3. Risk The FAG has been set up to specifically have an oversight on all things relating to forestry to reduce the risk to Council.
4. Financial impact The FAG has been set up to monitor forestry activity and to manage income and expenses accordingly. The expenditure recommended on this report is in line with this oversight.
5. Degree of significance and level of engagement This update report is of low significance. The FAG has assessed the Alternate Use Management Plan and agreed on an appropriate lead of engagement on specific sites.
6. Inclusion of Māori in the decision making process Maori have not been consulted as part of this report.
7. Delegations The FAG's TOR powers to decide include: <i>"a. Forestry and harvesting management plans (including replanting) as prepared by the Forestry contractor and endorsed by the independent forestry external expert;</i> <i>b. Engagement of consultants required to undertake all works necessary to guide recommendations to the Commercial Subcommittee and Council."</i>

17/04/18

Marsden Block: Clearing Douglas fir in stand 42.06

Background.

Wilding pines are a growing concern within New Zealand, particularly the South Island high country with thousands of hectares being overtaken every year by wilding pines. Within the Nelson region, wilding pines are a major threat to the Dun Mountain/Mineral belt with its naturally sparse vegetation. Recent wilding pine survey/treatment work carried out as part of Nelson Nature has revealed there is already a significant wilding pine issue in the region.

Fortunately not all species and sites have the same potential to generate wilding pines. Douglas fir, with its small, light seed, and very shade tolerant seedlings has a much greater potential for wilding spread than most forest species including *Pinus radiata*. Similarly, elevated sites, particularly those exposed to high winds (i.e. ridgelines), so called 'take-off sites', have much greater potential as a seed source of wilding pines.

Stand 42.06 was planted in 1997 with Douglas fir on an elevated site in the Marsden block. The reason this species was planted was that the Nelson City Council's forest management plan at that time called for 10% of the forest estate to be planted in a species other than *Pinus radiata*. The decision to plant Douglas fir on the ridge slope was for harvesting logistics. Over the past 5 to 8 years concern has been raised regarding the risk of wilding spread from this stand.

Following the report from the Catalyst group in 2015 and its recommendation to remove all the Douglas fir stands within the Council's forests, planning for the removal of this stand and the best option for achieving the desired outcome is again being considered.

Risk Assessment

Applying the Wilding Spread Risk Calculator¹ to stand 42.06 gives a score of 16 out of a maximum score of 21. A score of 12 or more indicates a high risk of spread from the planted site.

There is little doubt that this stand does pose a risk of wilding spread into the natural environment, due to its species and location. The predominant wind in this location is a north-west to northerly which fortunately should not carry seed directly towards the clear slopes of Mt Malita and beyond. Seed picked up from this stand should generally fall within the areas with good vegetation cover and beech forest cover which pose a much lower risk.

We would expect to see wildings establishing on the firebreak along the southern boundary of this stand and it is evident that this is now happening.

¹ <http://www.wildingconifers.org.nz/index.php/strategy/27-strategy/115-guidelines-for-the-use-of-the-wilding-spread-risk-calculator-from-new-plantings>

A1959057

Item 7: Forestry Update - Number 4 - June 2018: Attachment 1

Previous considerations

Various reports and recommendation on the wilding spread risk problem and how to address it have been produced without any clear outcome on how to move forward.

The 2015 Catalyst report concluded that the current and potential future impact of wilding pines on biodiversity values (and Nelson Nature's objectives) are such that Nelson City Council should destroy all of its current Douglas fir stands (a total of 39 hectares) as soon as possible. The Council agreed with this recommendation, and all other stands have been (or soon will be) either felled to waste or poisoned. However, with stand 42.06, a closer examination of the impacts of immediate removal has meant that this decision needs to be reviewed.

A report dated February 2017 prepared by Sandra Wotherspoon from the Department of Conservation with input from the other Nelson forest stake holders including the Council, for the Mt Richmond Forest Park Wilding Conifer Stakeholder Group has suggested that all Douglas fir seed sources are removed in the first 10 years of the control plan.

Several small areas of Douglas fir within Tasman Pine Forests Limited's forest in the Aniseed/Roding river area remain and these may be a source of wilding spread. That company's policy for the removal of these stands is to harvest them as they become mature and replant with *Pinus radiata*.

A report by Nick Ledgard² in 2012 on wilding conifer spread risk in the Nelson region also suggests that existing stands of Douglas fir which could contribute to wilding spread be harvested at maturity and replanted with other species.

PF Olsen proposed last year that the clearing of stand 42.06 be delayed for up to 10 years to allow the trees to grow on until they could be harvested and produce a return for the Council. Our calculation shows that at age 30 in 2027 the stand could produce a net harvest return in the order of \$200,000+. It is possible that harvesting could occur sooner and at age 25 in 2022 a harvest operation could breakeven.

Options

Four options have been considered.

#	Option	Advantages	Disadvantages
1	Fell to waste or poison the standing trees now	Removes the spread risk immediately	This option poses high risk to the public from dead trees falling apart and injuring anyone who may enter the forest area especially during strong winds. Fences may need to be erected around the perimeter to stop unwanted entry.

²The risk of wilding conifer spread into Mt Richmond Forest Park. Prepared for: Department of Conservation Nelson, Nelson Forests Ltd, Tasman Bay Forests Co Ltd and Tasman District Council. May 2012.

A1959057

Item 7: Forestry Update - Number 4 - June 2018: Attachment 1

			<p>The felling to waste would create a risk of fire to the forest estate and beyond into neighbouring commercial forest estate and council land. The public if trapped in the area during a fire would be at great risk.</p> <p>This stand is included in the Landscape overlay and both the poisoning and felling to waste options would be visible for a long time from a large part of the region.</p>
2	Harvest now	<p>Removes the spread risk immediately.</p> <p>Provides a cleared site for replanting in a different species.</p>	Harvesting this stand now could cost in excess of \$288,000. This is based on harvesting we completed of a same age stand of Douglas fir in the Maitai block which cost \$16,000 per hectare.
3	Delay harvest to 2022	<p>Removes the spread risk within five years.</p> <p>Aligns with other regional wilding control proposals.</p> <p>Provides a cleared site for replanting in a different species.</p>	No net cost to Council.
4	Delay harvest to 2027 and get a financial return to Council.	<p>Removes the spread risk within 10 years.</p> <p>Aligns with other regional wilding control proposals.</p> <p>Provides a cleared site for replanting in a different species.</p>	Positive financial return to Council.

Analysis

Option 1 - poisoning or felling this stand to waste would create short to medium term health and safety risks to the public, fire risk and have a significant medium-term impact on landscape values.

We believe that clearing this stand via a harvest operation is the only option that can achieve the desired outcome without creating an unacceptable impact on other values.

Options 2,3 and 4 (harvesting with different timings) would all achieve the desired outcome and ensure a cleared site ready for replanting. Immediate harvest would incur a significant net cost to the Council, whereas delaying the harvest will either breakeven or result in a profit depending on timing.

A1959057

Item 7: Forestry Update - Number 4 - June 2018: Attachment 1

The harvesting options are supported by the available reports on this issue (Ledgard, 2012 and the Mt Richmond Forest Park Wilding Conifer Stakeholder Group report) and the way that Tasman Pine Ltd intend dealing with their Douglas fir.. They recommend removing high risk stands within 10 years or leaving them to be harvested at maturity.

Recommendation

We recommend that:

- i) Council agree to remove the Douglas fir in stand 42.06 by harvesting when this can be carried out without incurring a net cost to the Council. This is expected to be after 2022.

A1959057

Nelson City Council

Tantragee Hazardous Tree Management

May 2018

Prepared for:
Forestry Advisory Group

A1969488



Introduction

The Tantragee Trees are a remnant area of a forest which was harvested in 2010. A residential subdivision was created in the bottom section of the stand in 1997. Since then the trees have continued to grow and following the 2010 harvest the risk has been increasing steadily of debris from the standing trees sliding into these properties.

The NCC has commissioned PF Olsen to investigate options to manage the risk of the trees falling onto these properties. Two options have been identified and are described below.

It is recommended that public consultation is carried out before operations are carried out.



Option 1

Poisoning / felling to waste. (Preferred)

Proposed Plan

For the purpose of this report, the area is divided into four sections 1-4 which would be treated differently.

Zone 1

This section is nearest the houses so the trees in this section are proposed to be poisoned as soon as possible. These will break down over time and natural revegetation should readily occur here as the area already has a good vegetation cover. Some help with restocking by under planting the poisoned area will help, this should occur when the poisoned trees start to die. The house below should not be at risk to the rotting trees as they breakdown as there is good separation from the houses. Signs may need to be erected warning the public of the dangers of entering the area.

Cost: \$8,000

Zone 2

It is proposed to poison all the trees in this section.

It is proposed that the work in this section be delayed for up to five years following the poisoning of the bottom section to allow for some soil stability from the new crop in sections one, three and four.

Cost: \$8,000

Zone 3

This section is above the Dun mountain walkway and it is proposed to be poisoned. It is proposed to poison this section at the same time as the work in section 4 is undertaken. Restocking by under planting the poisoned area will help, this should occur when the poisoned trees start to die.

Cost: \$2,000

Zone 4

The Dun Mountain trail passes through this section, so all trees are proposed to be either be broken down from standing by an Arborist or felled to waste, so there is minimum interference with the trail. Trees which were not able to be treated by the Arborist would be felled across the slope with all branches left on the tree. Tree stumps would be left as high as possible to help hold the felled trees in place. It is proposed that this section be treated as soon as possible.

Cost: *Will depend on number of trees the Arborist can breakdown, and a safety risk assessment being carried out. Allow up to \$20,000.*

Poisoning or felling the whole site at one time may mean that the current root system that holds the soil will suddenly stop being effective (after approximately five years) and the poisoned area will not be re-established enough to counteract this loss in stability. Delaying poisoning some section will allow for the other sections to get re-established first to allow these to help hold soils together.

Estimated planning, consultation and supervision costs = \$25,000



**Potential
Risks**

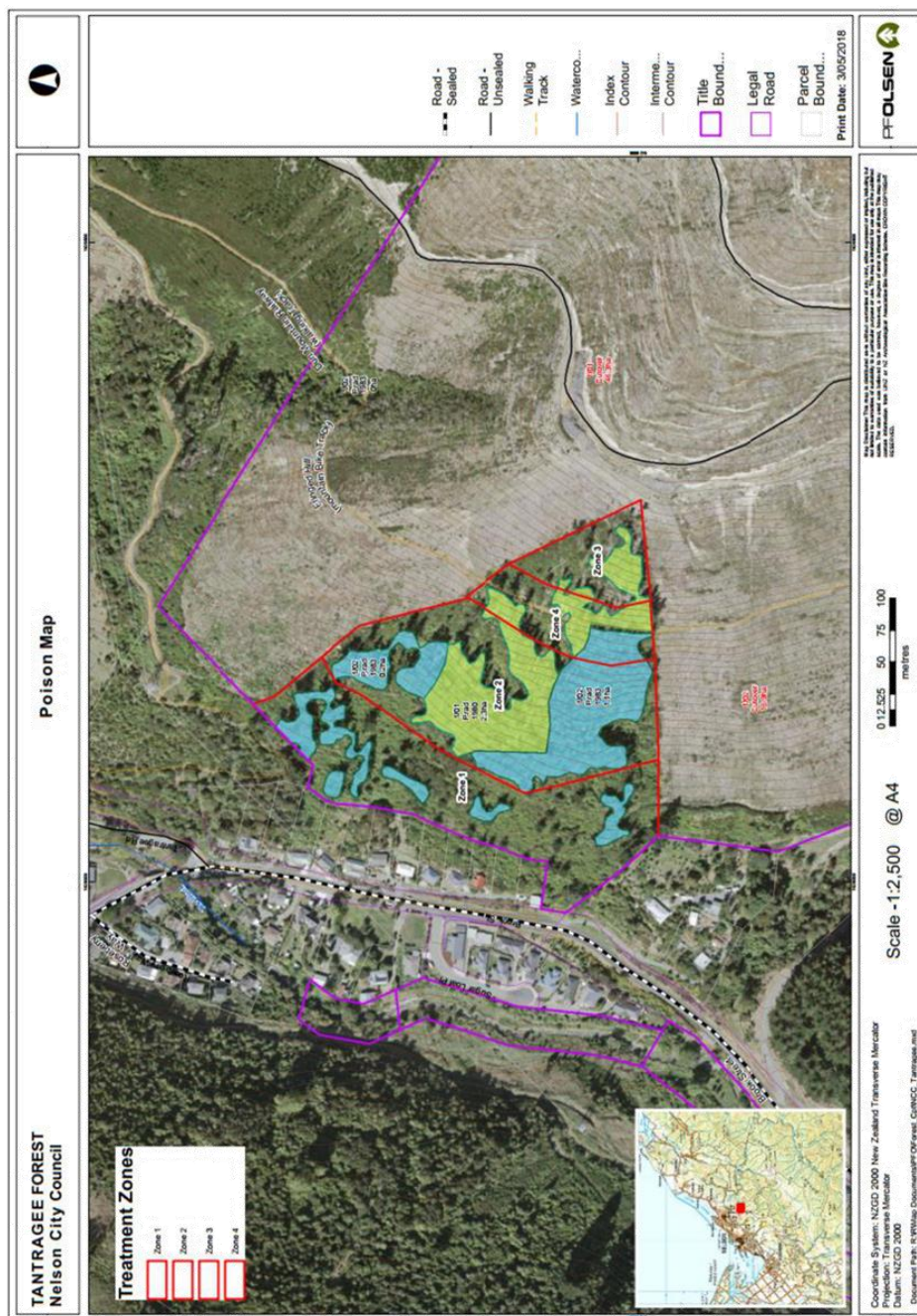
One risk from this option is the slash loading left on the steep hillside above the houses. There is potential that in a major storm event, the hillside above the house could fail and debris may move downhill. Some geotechnical input on the land stability may be required. Water controls above the site will need to be maintained to direct storm water away from the face.

The risk of delaying is that further wind throw could occur within the stand

The public need to be excluded from the poisoned areas for a lengthy period because of the risk of wood breaking off and falling from the decaying trees.



Map





Option 2

Using machines to fell and remove the trees.

This option has not been planned in detail, as there is a large amount of planning work both from PF Olsen and independent consultants that needs to be carried out for this kind of operation.

Proposed Plan

This plan would involve using a combination of a winch-assisted felling machine, and manual chainsaw felling to fell the trees. A hauler would then remove the trees to the top of the hill.

The existing skid site above the trees would need reconstructing to allow the hauler to sit in a more favourable position above the trees.

The large size of the trees means that the felling machine would not be able to handle all the trees, and you would therefore have to use manual felling for some trees, which imposes additional safety risks.

A track would have to be constructed below the trees but above the legal boundaries of the properties below. Containers or some sort of barrier would need to then be placed on the track to prevent sliding trees from sliding into the properties below. Resource consent would be required for the construction of this track, with geotechnical engineering advice also required.

The residents would need to be relocated throughout this operation.

Potential Risks

This would be a significantly expensive option. The harvesting crew could cost up to \$150,000 alone, let alone a civil engineering contractor + container use for the barrier below, accommodation for residents, and consulting fees.

Hauling trees across the Dun Mountain walkway may cause damage to the walkway.

The bottom track may compromise the stability of the hillside. There is history of slips in the area, with adjacent areas having slips both before and after harvesting.

There is no guarantee that the hauler will be able to remove all the trees due to their large size, and the limited areas that the hauler will have to span its pulling ropes.

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Proposed: NCC cut plan 2017-2027					
24/04/2018					
Financial years. Example: 2017 = June 2017 - July 2018					
Forest	Stand	Year Established	Area (ha)	TRV (m3)	Net Revenue
2017					
MAIT	MAIT-0004-05	1988	15	9,973	\$ 332,851.87
MAIT	MAIT-0009-03	1989	0.4	241	\$ 7,840.69
MAIT	MAIT-0010-03	1987	12.5	7,182	\$ 266,473.75
MAIT	MAIT-0009-02	1987	2.6	1,165	\$ 41,468.35
Total Maitai 2017			30.5	18,561	\$ 648,634.66
RODI	RODI-0052-01	1989	4.3	1,655	\$ 74,756.93
RODI	RODI-0055-02	1988	11.5	5,578	\$ 244,089.38
RODI	RODI-0055-04	1990	2.2	996	\$ 12,984.80
RODI	RODI-0052-01	1989	7.1	2,904	\$ 117,123.20
RODI	RODI-0053-01	1989	2.4	1,066	\$ 34,252.80
RODI	RODI-0053-04	1989	7.3	3,497	\$ 137,432.60
RODI	RODI-0053-02	1990	3.3	1,529	\$ 51,978.20
RODI	RODI-0052-02	1990	16.5	7,859	\$ 258,858.96
Total Roding 2017			54.6	25,084	\$ 931,476.86
Grand Total 2017			85.1	43,645	\$ 1,580,111.52
2018					
MAIT	MAIT-0004-05	1988	10.2	6,781	\$ 226,317.91
MAIT	MAIT-0001-01	1981	8.9	5268	\$ 184,073.40
MAIT	MAIT-0003-02	1986	2.3	978	\$ 30,036.40
MAIT	MAIT-0004-03	1983	0.5	347	\$ 13,761.10
MAIT	MAIT-0001-03	1990	7.5	3150	\$ 122,095.00
MAIT	MAIT-0001-02	1989	6.4	3783	\$ 140,928.10
MAIT	MAIT-0003-03	1988	5.4	2328	\$ 56,556.40
MAIT	MAIT-0003-01	1982	1.1	619	\$ 16,484.70
Total Maitai 2018			42.3	23254	\$ 790,253.01
RODI	RODI-0051-01	1990	4.5	2,303	\$ 45,019.40
RODI	RODI-0051-02	1991	13.5	6,487	\$ 119,002.60
RODI	RODI-0051-03	1992	3.9	2,271	\$ 38,905.80
RODI	RODI-0052-02	1990	4	1,896	\$ 62,450.26
RODI	RODI-0052-04	1989	6.4	2,335	\$ 58,828.00
Total Roding 2018			32.3	15292	\$ 324,206.06
BROO	BROO-0026-02	1987	2	913	\$ 29,554.40
BROO	BROO-0022-06	1988	3.5	1,586	\$ 29,256.80
BROO	BROO-0022-05	1987	1.6	682	\$ 14,551.60
BROO	BROO-0022-04	1983	0.4	124	\$ 2,606.20
Total Brook 2018			7.5	3305	\$ 75,969.00
Grand Total 2018			82.1	41,851	\$ 1,190,428.07
2021					
RODI	RODI-0056-01	1993	16.3	8,340	\$ 200,662.00
RODI	RODI-0055-01	1993	7.6	3,735	\$ 89,965.50
Total Roding 2021			23.9	12,075	\$ 290,627.50
Grand Total 2021			23.9	12,075	\$ 581,255.00
2022					
MAIT	MAIT-0007-02	1993	0.9	487	\$ 16,880.60
MAIT	MAIT-0008-02	1991	3.6	1,949	\$ 67,831.20
Total Maitai 2022			4.5	2,436	\$ 84,711.80
BROO	BROO-0028-01	1993	3	1,624	\$ 54,962.20
Total Brook 2022			3	1,624	\$ 54,962.20
Grand Total 2022			7.5	4,060	\$ 139,674.00
2023					
MARS	MARS-0042-05	1994	23.9	12,938	\$ 547,729.40
Total Marsden Valley 2023			23.9	12,938	\$ 547,729.40
Grand Total 2023			23.9	12,938	\$ 547,729.40
2024					
MAIT	MAIT-0004-11	1995	17.4	9,420	\$ 342,326.00
MAIT	MAIT-0003-04	1995	10.6	5,738	\$ 203,576.40
Total Maitai 2024			28	15,158	\$ 545,902.40
Grand Total 2024			28	15,158	\$ 545,902.40

A1969488



**NELSON CITY COUNCIL
QUARTERLY FORESTRY REPORT
Q3: 1 January – 31 March 2018**



Douglas Fir harvesting in the Brook Valley

A1969491



NELSON CITY COUNCIL FORESTRY REPORT
1 JANUARY – 31 MARCH 2018 – 3 MONTHS

Headline Statistics

1. Net Harvesting Revenue	\$2,226,116	93%
2017/2018 Annual Budget	(Revised)	\$2,400,000

- Harvesting was undertaken at the Roding Forest.

2. Volume in Tonnes	46,492	84%
2017/2018 Annual Budget		54,850 m ³

- The volumes this quarter are down on previous quarters as planned but overall YTD volume is still up on budget.

3. Forestry Management PFO controlled expenditure	\$108,715
2017/2018 Annual Budget	\$284,348

- Release spraying undertaken in the Roding forest on the 2015 plantings. A larger area than anticipated required spraying.
- Seedling deposits paid for 2018 planting are shown in this report.
- Preharvest inventory continues to be undertaken as required.

4. Risk Management

- One Near Hit, detail below.
- Concerns from a member of the public regarding slash storage at Maitai, detailed below.
- The annual Safe Start meeting was held
- Planning is underway for the NES PF implementation

Item 7: Forestry Update - Number 4 - June 2018: Attachment 4



1. Harvesting Revenue – Harvesting was carried out only in the Roding forest his quarter.

NCC Harvesting 1 July 2017 to 31 March 2018

		Job# 13451	Job# 14268
	Total All	Roding	Maitai
HARVESTING COSTS			
Administration/Comm Levy	16,073	8,693.43	7,379.53
Clean up/Debris clearance	11,370	3,010.00	8,360.04
Metalled or sealed	37,332	12,835.14	24,496.45
Health and safety	5,730	2,081.18	3,648.38
Logging	1,932,861	971,588.84	961,272.48
Log and load	45,871	-	45,870.76
Logging road maintenance	63,312	22,079.33	41,232.49
Management	209,663	107,987.78	101,675.12
Road Maintenance - Public	323	310.00	13.03
Mapping	-	0.00	0.00
Safety Training	-	0.00	0.00
Skid Construction	14,690	9,930.00	4,760.00
Skid Rehabilitation	11,367	3,410.00	7,957.17
Tracking	2,380	-	2,380.00
Transport	793,313	439,853.62	353,459.74
Retentions	-	0.00	0.00
POST HARVEST OPS			
Clean up/Debris clearance	28,100	15,235.05	12,865.00
Road Maintenance	19,200	2,565.00	16,635.22
TOTAL	3,191,585	1,599,579.37	1,592,005.41
SALES			
GoldPine	111,671	108,953.20	2,717.46
Nelson Pine	514,182	436,377.18	77,804.55
South Pine	629,978	287,515.51	342,462.21
CHH	563,324	559,596.65	3,726.90
Fortuna	3,066,424	1,120,433.80	1,945,990.26
Taylor Timbers	38,466	36,864.29	1,601.60
Southwood	80,555	40,494.17	40,060.35
Eurocell	299,542	99,449	200,093.71
Borlase Transport	-	-	-
Jason Hamilton	-	-	-
Vortex Group	1,777	1,777	-
Wai iti Wood Supply	-	-	-
Miller & Sons	-	-	-
Prime Pine	-	-	-
Westco	111,784	47,162.61	64,621.06
TOTAL	5,417,701	2,738,622.51	2,679,078.10
OVERALL TOTAL			
Gross Revenue	\$ 5,417,701	\$ 2,738,623	\$ 2,679,078
Gross Costs	\$ 3,191,585	\$ 1,599,579	\$ 1,592,005
Net YTD Revenue	\$ 2,226,116	\$ 1,139,043	\$ 1,087,073 -
 Total Tonnes	 46,492	 23,904	 22,588

Item 7: Forestry Update - Number 4 - June 2018: Attachment 4



Roding	Volume (tonnes)	Nett Income	Av nett revenue per tonne	Harvest costs	Av cost per tonne
1 st Quarter	10,658	\$488,886	\$45.87	\$703,221	\$65.98
2 nd Quarter	9,248	\$457,387	\$49.45	\$614,346	\$66.43
3 rd Quarter	3,998	\$192,770	\$48.28	\$282,013	\$70.63
Total	23,904	\$1,139,043		\$1,599,579	
Maitai					
1 st Quarter	13,885	\$689,811	\$49.68	\$967,278	\$69.66
2 nd Quarter	8,703	\$397,262	\$45.65	\$624,728	\$71.78
Total	22,588	\$1,087,073		\$1,592,005	

Current Year	Total to date	Annual Budget	%	Comments
Nett Income - \$	\$2,226,116	\$1,959,973	113%	Net income ahead of revised budget due to continued strong log prices.
Volume - tonnes	46,492	54,850	84%	Harvest volumes have slowed down and will continue lower for next quarter. Will meet budget.
Av. Net Price per tonne	\$47.88	\$35.73		Excellent log pricing and better than predicted grade recoveries.
Harvest costs	\$3,191,585	3,963,303	80%	Costs per tonne remain below predicted costs.
Av. Cost per tonne	\$68.65	\$72.26		

2. Forestry Management Expenditure

Forest Budget	Year to Date Actual (\$)	Annual Budget (\$)	Comments
Roding	2,253	18,421	Minor road maintenance completed.
Land Preparation	6,469	57,768	Chemical purchase for desiccation in preparation for the 2018 planting season.
Establishment	43,657	7,000	\$30,524 tree stocks deposit (winter 2018 planting) will be credited back to Council. This was not in the budget. \$13,133 for release spraying in the Roding of the 2015 planted area. Budget assumed 50% of the area would require releasing whereas 100% was required.
Tending	3,818	51,521	Pre-Harvest inventory – Marsden Forest.
Protection	247	3,070	Nil
Property Maintenance	0	3,000	Nil



Rates & Insurance	0	28,979	Costs paid directly by council.
Admin/Management	9,283	32,544	PF Olsen operational fees and monthly admin fee.
13554 NCC Consulting	16,739	35,819	Forest valuation, Harvest planning (PF Olsen).
20947 D Fir Removal	26,249	46,226	D fir tree removal in the Brook and Maitai Forests.
TOTAL	108,715	284,348	

3. Risk Management

3.1 Health & Safety

Incidents

- 1 Near Hit
 - Description: A truck trailer rolled off the road on the Aniseed Valley road while transporting logs from the Roding Forest and meeting a speeding public vehicle.
 - Follow up: Prior to this incident a temporary speed limit had been recommended by PF Olsen, this was rejected by the TDC. We will request this again. The road is partly in TDC and NCC territories. In the meantime, the harvesting and trucking contractors have continued to discuss this risk in their safety meetings.

Safety Meetings/Initiatives

Our annual safe-start meeting was held in early January at Club Waimea.

- A safety speech was given, including H&S goals for the year.
- A guest speaker, Wiremu Edmonds, industry H&S advocate, gave a presentation.
- Awards were given, and nominations read out for 5 different awards.
- Workers training certificates were presented.

3.2 Environmental

Compliance

- Concerns were raised around the slash storage on a skid site in the Maitai Forest. The site was visited by the Johan Visscher (PF Olsen Harvest manager), Neil Henderson (NCC Compliance officer) and Lachie Grant. It was concluded that the slash was stable and had just survived 2 cyclones, and that it was to the industry best practise. Notwithstanding this, and due to the council's desire to display strong environmental leadership, it was agreed that more work could be done to secure the slash; this has now been completed. It has been agreed following discussion with NCC that PF Olsen will use this work to set the new standard for future works.

Item 7: Forestry Update - Number 4 - June 2018: Attachment 4



NES PF

- Work is continuing in preparing for the implementation of the National Environmental Standards for Plantation Forestry (NES PF). With a training scheduled for all staff and contractors in mid-April.
- The Roding Forest harvesting will need to be notified to the council, and PF Olsen are working with NCC to determine what consent if any will be needed for the utilisation of the road to the forest.

Item 7: Forestry Update - Number 4 - June 2018: Attachment 4



4. Wood Track Production Report

From 01/07/17 To 31/03/18

GeoUnit:

Nelson City Council

NCC - Roding Harvest

0013451

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Borlase Transport Ltd	SPRING GROVE	PRAD	FW	RL	1.0	4.78		

Borlase Transport Ltd Total: 1.0 4.78

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Carter Holt Harvey Holdings Ltd	Eves Valley	PRAD	HP	3.7	1.0	33.34		
		PRAD	ROB	M	136.0	4,517.04		

Carter Holt Harvey Holdings Limited - Eves Valley Total: 137.0 4,550.38

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Eurocell Wood Products Ltd	Tahunanui	PRAD	ROB	M	25.0	826.06		

Eurocell Wood Products Ltd Total: 25.0 826.06

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Fortuna Forest Products Ltd 9	Port Nelson	PRAD	A	3.9	120.0	2,529.61		2,435.116
		PRAD	K	3.9	126.0	2,940.74		2,826.511
		PRAD	K	5.9	7.0	198.00		177.283
		PRAD	KI	3.9	21.0	355.56		326.545
		PRAD	KIS	3.9	53.0	991.68		801.363
		PRAD	KIS	5.9	26.0	378.79		273.546
		PRAD	P35	4.0	34.0	625.57		604.489
		PRAD	P35	5.2	35.0	561.22		534.451
		PRAD	P40	4.0	1.0	11.96		12.180

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
		PRAD	P40	5.2	7.0	132.34		127.974
		PRAD	PP30	4.0	41.0	789.30		732.644

Fortuna Forest Products Ltd 9 Nelson Total: 471.0 9,514.77 8,652.102

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Goldpine Industries Ltd	Golden Downs	PRAD	POLES	12.0	2.0	73.52		
		PRAD	POLES	4.8	7.0	179.17		
		PRAD	POLES	5.4	4.0	78.59		
		PRAD	POLES	8.0	6.0	91.41		
		PRAD	POST	3.6	14.0	304.96		
		PRAD	POST	4.5	2.0	34.74		
		PRAD	POST	5.4	1.0	13.48		
		PRAD	POST	RL	5.0	158.36		
		PRAD	POST	RM	1.0	15.46		

Goldpine Industries Ltd Total: 42.0 949.69

Item 7: Forestry Update - Number 4 - June 2018: Attachment 4



Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Nelson Pine Industries Ltd	Richmond	PRAD	CH	RS	101.0	2,665.16		
		PRAD	LVLMX	5.5	86.0	2,173.82		

Nelson Pine Industries Ltd Total: 187.0 4,838.98

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
South Pine (Nelson) Ltd	Stoke	PRAD	ROB	M	70.0	2,407.32		

South Pine (Nelson) Ltd Total: 70.0 2,407.32

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Southwood NZ Ltd	Motueka	PRAD	P35	5.0	5.0	81.33		
		PRAD	P35	RL	1.0	30.11		
		PRAD	P35	RS	7.0	156.94		

Southwood NZ Ltd Total: 13.0 268.38

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
D & E Taylor Timbers Ltd	Hope	PRAD	P35	M	2.0	35.20		
		PRAD	P35	RL	5.0	173.36		
		PRAD	ROB	M	2.0	32.21		

D & E Taylor Timbers Ltd Total: 9.0 240.77

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Jason Kingsley Brewerton and	Brightwater	PRAD	FW	RL	1.0	32.30		

Brewerton and Kristina May Brewerton as partners of the 1.0 32.30

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Westco Lumber Ltd	Ruatapu	PRAD	P2	S	3.0	1.69	1.667	

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
		PRAD	PSL	M	9.0	268.17	260.395	
		PRAD	ROB	S	1.0	0.75	0.748	

Westco Lumber Ltd Total: 13.0 270.61 262.810

NCC - Roding Harvest Total: 969.0 23,904.04 262.810 8,652.102
Nelson City Council Total: 969.0 23,904.04 262.810 8,652.102
Report Total: 969.0 23,904.04 262.810 8,652.102

** End Of Report **

Item 7: Forestry Update - Number 4 - June 2018: Attachment 4



From 01/07/17 To 31/03/18

GeoUnit:

Nelson City Council

NCC - Maitai Harvest

0014268

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Carter Holt Harvey Holdings Ltd	Eves Valley	PRAD	ROB	M	1.0	30.30		

Carter Holt Harvey Holdings Limited - Eves Valley Total: 1.0 30.30

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Eurocell Wood Products Ltd	Tahunanui	PRAD	N25	M	11.0	328.86		
		PRAD	ROB	M	45.0	1,366.89		

Eurocell Wood Products Ltd Total: 56.0 1,695.75

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Fortuna Forest Products Ltd 9	Port Nelson	PRAD	A	3.9	194.0	3,996.58		3,782.904
		PRAD	A	5.9	66.0	1,694.34		1,567.195
		PRAD	K	3.9	119.0	2,100.14		1,883.407
		PRAD	K	5.9	49.0	1,037.38		867.342
		PRAD	KI	3.9	23.0	446.67		399.517
		PRAD	KIS	3.9	64.0	1,194.08		969.610
		PRAD	KIS	5.9	43.0	728.25		531.100
		PRAD	P35	4.0	37.0	546.89		523.134
		PRAD	P35	5.2	4.0	64.64		61.426
		PRAD	P40	4.0	30.0	442.57		422.197
		PRAD	P40	5.2	57.0	1,092.54		1,059.184
		PRAD	PP30	4.0	119.0	2,646.68		2,623.812

Fortuna Forest Products Ltd 9 Nelson Total: 805.0 15,990.76 14,690.830

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Goldpine Industries Ltd	Golden Downs	PRAD	POST	RL	1.0	29.22		

Goldpine Industries Ltd Total: 1.0 29.22

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Nelson Pine Industries Ltd	Richmond	PRAD	CH	RS	42.0	1,218.96		

Nelson Pine Industries Ltd Total: 42.0 1,218.96

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
South Pine (Nelson) Ltd	Stoke	PRAD	N25	M	5.0	150.16		
		PRAD	ROB	M	96.0	2,842.75		

South Pine (Nelson) Ltd Total: 101.0 2,992.91

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Southwood NZ Ltd	Motueka	PRAD	P35	5.0	8.0	242.79		

Southwood NZ Ltd Total: 8.0 242.79

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Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
D & E Taylor Timbers Ltd	Hope	PRAD	ROB	M	1.0	24.64		

D & E Taylor Timbers Ltd Total: 1.0 24.64

Customer	Destination	Species	Grade	Len	Loads	Tonnes	m3	JAS
Westco Lumber Ltd	Ruatapu	PRAD	P2	S	3.0	1.71	1.656	
		PRAD	PSL	M	10.0	360.42	347.934	
		PRAD	ROB	S	1.0	0.39	0.380	

Westco Lumber Ltd Total: 14.0 362.52 349.970

NCC - Maitai Harvest Total: 1,029.0 22,587.85 349.970 14,690.830
Nelson City Council Total: 1,029.0 22,587.85 349.970 14,690.830
 Report Total: 1,029.0 22,587.85 349.970 14,690.830

** End Of Report **