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1. What is this Plan?

About this Plan

This **specific** forest management plan provides details about the following 25 forests, referred to as the Oji forests.

- 1. Ātiamuri
- 2. Bookers
- 3. Davies
- 4. Duncan
- 5. Granite
- 6. Kinleith
- 7. Maraeroa C*
- 8. Maraetai
- 9. Murphy
- 10. Ngaruawahia
- 11. Pickford
- 12. Pinedale*
- 13. Price
- 14. Rust
- 15. Seal
- 16. Seven Oaks
- 17. Stoneleigh
- 18. Tar Hill
- 19. Taranui Baboon*
- 20. Tatua
- 21. Te Ranga
- 22. Tokoroa East North
- 23. Waihora
- 24. Waipapa 9
- 25. Whakamaru

It is to be used in conjunction with the **standard** forest management plan¹, which outlines the typical management applied to the Forest Stewardship Council (FSC®) Group Scheme estate forests.

Where Oji Fibre Solutions forests are managed in a different way than described in the standard forest management plan, this is detailed within this plan, which takes precedence.

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¹ https://nz.pfolsen.com/site/pfolsen/ForestManagemenPlan%20-%20Standard.pdf



* NOTE: As of the 20 February 2025 Maraeroa C, Pinedale and Taranui Baboon forests have been removed from the PF Olsen FSC Group Scheme. These forests were under forestry right agreements, and have been handed back to the landowners upon completion of harvest.

Information regarding these forests will remain within this Forest Management Plan, until the next five yearly plan update in 2028.

Foundation Principle

As a policy the:

- Oji Fibre Solutions (Oji) has a long-term commitment to the FSC Principles and Criteria in the management unit, and to related FSC Policies and Standards, and
- Oji is committed to the PF Olsen FSC Group Scheme NC-FM/COC-000190 processes and associated documents.

Oji has sought FSC certification, to ensure that their forests are managed in an environmentally appropriate, socially beneficial and economically viable manner and to obtain the best access opportunities to the local processing market which is seeking to source FSC certified logs.



2. The Forest Land

Location and access

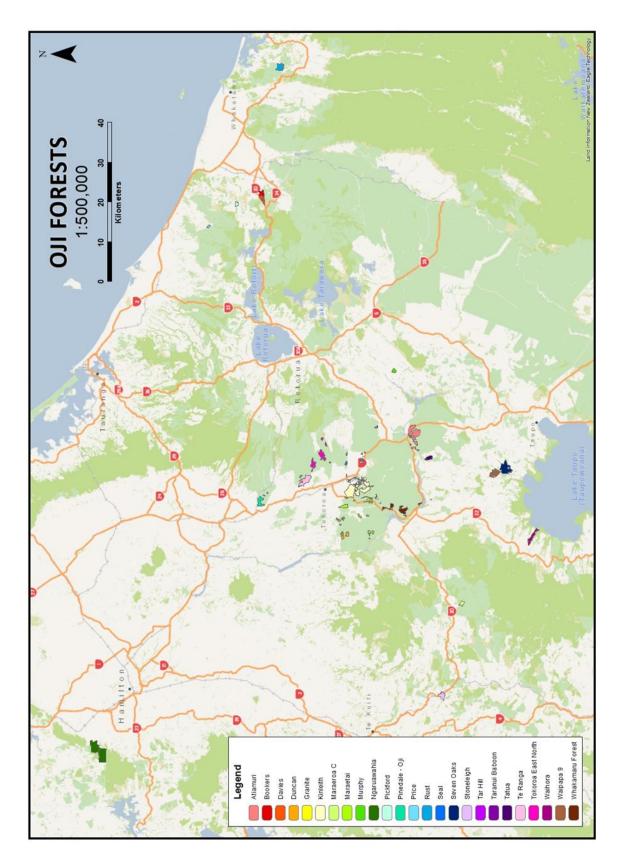
Oji's forests comprise approximately 7,566 hectares across three different regions – Waikato, Manawatu-Whanganui and the Bay of Plenty. A forest location map is shown on the next page and detailed forest maps are in Appendix 1, while the table below gives location details.

Forest	Location
Ātiamuri	Tirohanga Road, off SH 1, just south of Ātiamuri township
Bookers	SH 30 (Mangaone Road), east of Te Teko and north of Kawerau
Davies	SH 30 (Mangaone Road), east of Te Teko and north of Kawerau
Duncan	Duncan Road, from Jack Henry Road, east of Tokoroa
Granite	Alongside SH 30, just off SH 1, and bordering the northern side of the Waikato River, southwest of Ātiamuri township
Kinleith	Area immediately surrounding Kinleith Pulp and Paper Mill, Tokoroa
Maraeroa C	Maraeroa Road, off SH 30, within Pureora Forest
Maraetai	Southwest of Tokoroa in amongst Kinleith Forest
Murphy	Te Weta Road, off Waikite Valley Road, south of Rotorua
Ngāruawahia	Waingaro Road and Te Puroa Road, southwest of Ngāruawahia
Pickford	Manawahe Road, northeast of Manawahe township, and on the south-eastern edge of Rotoehu Forest
Pinedale	Pinedale Road, from SH 1, southeast of Putāruru
Price	Campbell Road, northern edge of Rotoehu Forest, Bay of Plenty
Rust	Stanley Road, from SH2, east of Tāneatua
Seal	Boundary Road from SH 1, southeast of Tokoroa
Seven Oaks	Holtoakes Road, from Whangamata Road, north of Kinloch, Lake Taupo
Stoneleigh	SH 30, south of Kopaki
Tar Hill	Alongside SH 1, south of Tokoroa
Taranui Baboon	Pukerimu Road, from SH 30, northeast of Upper Atiamuri
Tatua	Tram Road, from Tirohanga Road, southwest of Ātiamuri
Te Ranga	Puriri Road, from SH 1, north of Tokoroa



Tokoroa East North	Puriri Road and Galaxy Road, north of Tokoroa
Waihora	Hingare Road, from SH 32 (Western Bay Road), on the north- western edge of Lake Taupo (Waihora Bay)
Waipapa 9	Access from Poihipi Road, north of Kinloch, Lake Taupo
Whakamaru	Alongside SH 32 (Whakamaru Road), on the eastern side of Lake Maraetai, and north of Whakamaru township / Lake Whakamaru







Forest Area

Maps of each of Oji's forests are in Appendix 1.

Forest	Net-stocked Area (ha)	Indigenous Area (ha)	Non-productive Area (ha)	Total Forest Area (ha)
Ātiamuri	679.0	1.4		680.40
Bookers	144.8	20.4		165.2
Davies	120.2			120.2
Duncan	220.8			220.8
Granite	20.5			20.5
Kinleith	1,284.5	32.6	20.3	1,337.4
Maraeroa C	56.0	21.2		77.2
Maraetai	314.0	8.1	13.6	335.6
Murphy	74.5	4.4	1.0	79.9
Ngāruawahia	774.9	206.0		980.9
Pickford	50.4	8.2	13.0	71.5
Pinedale	241.4	1.7		243.1
Price	34.5	1.9	3.0	39.4
Rust	134.2	91.1	43.9	269.2
Seal	35.4	0.8		36.2
Seven Oaks	479.2	57.5	41.0	577.7
Stoneleigh	137.5	31.1		168.6
Tar Hill	279.3	20.7		300.0
Taranui Baboon	18.8	2.2		21.0
Tatua	126.2	8.8		135.0
Te Ranga	408.9	6.2		415.1
Tokoroa East North	324.9			324.9
Waihora	275.0	4.3		279.3
Waipapa 9	293.4	6.8		300.2
Whakamaru	350.3	12.0	4.6	366.8
Total certified area	6,878.3	547.2	140.5	7,565.9



Forests under forestry right agreements (see Appendix 2) will have land handed back to the appropriate landowners once harvesting has been completed. Productive areas for these forests will decrease over time, and will be kept updated in the PF Olsen FSC Group Scheme Register. Areas within this management plan will be updated as part of the next five yearly forest management plan revision in 2028.

* NOTE: As of the 20 February 2025 Maraeroa C, Pinedale and Taranui Baboon forests have been removed from the PF Olsen FSC Group Scheme. These forests were under forestry right agreements, and have been handed back to the landowners upon completion of harvest.

Information regarding these forests will remain within this Forest Management Plan, until the next five yearly plan update in 2028.

Legal ownership

Appendix 2 gives the legal description of the land on which each of Oji's forests is situated, along with its tenure status.

Markets

All of the harvested eucalyptus goes to Oji's mills. However, only the pulp wood from radiata goes to the mills. The rest of the radiata will go wherever the market determines at the time.

Topography

Topography allows for ground-based harvesting. It's described in the table below for each forest.

Forest	Topography and Geology
Ātiamuri	Undulating to gently rolling slopes with a deep mantle of coarse- textured Taupo airfall tephra overlying more weathered tephra below 600 m asl
Bookers	Moderately steep to steep hills with a deep mantle of Tarawera Ash and Lapilli below 900m asl
Davies	Rolling to strongly rolling hills with poorly structured soils formed on a deep mantle of Tarawera Ash and Lapilli, below 900m asl



Forest	Topography and Geology
Duncan	Moderately steep hills with soils formed from a thin mantle of Taupo airfall tephra over more weathered tephra below 900 m asl
Granite	Flat to gently undulating terraces of water-sorted tephra below 900 m asl
Kinleith	Undulating to gently rolling slopes with a thin mantle of Taupo airfall tephra over more weathered tephra below 400 m asl
Maraeroa C	Rolling slopes mantled with Taupo airfall tephra and undulating valleys infilled with fine-textured Taupo flow tephra below 1000 m asl
Maraetai	Moderately steep hills with soils formed from a thin mantle of Taupo airfall tephra over more weathered tephra below 900 m asl
Murphy	Steep hills, scarps and gorges with a deep mantle of Taupo airfall tephra over more weathered tephra over stable rock types below 800m asl
Ngāruawahia	Steep to moderately steep greywacke slopes with a remnant cover of early Holocene and late Pleistocene tephra below 450m asl
Pickford	Steep hills with a thin mantle of Kaharoa Ash over more weathered tephra interbedded with lapilli below 200m asl
Pinedale	Moderately steep hills with soils formed from a thin mantle of Taupo airfall tephra over more weathered tephra below 900 m asl
Price	Strongly rolling to moderately steep hills below 850 m asl
Rust	Steep hills with a thin mantle of Kaharoa Ash over more weathered tephra interbedded with lapilli below 200m asl
Seal	Strongly rolling to moderately steep stable hills on greywacke, ignimbrite and massive mudstone with a thin mantle of Taupo airfall tephra over older tephra below 900m asl
Seven Oaks	Steep hills with a deep mantle of Taupo airfall tephra over more weathered tephra over unconsolidated rock types below 700m asl
Stoneleigh	Rolling to strongly rolling slopes below 350 m asl
Tar Hill	Moderately steep hills with soils formed from a thin mantle of Taupo airfall tephra over more weathered tephra below 900 m asl
Taranui Baboon	Moderately steep hills with soils formed from a thin mantle of Taupo airfall tephra over more weathered tephra below 900 m asl
Tatua	Strongly rolling to moderately steep hills below 800 m asl
Te Ranga	Rolling to strongly rolling slopes below 350 m asl



Forest	Topography and Geology
Tokoroa East North	Rolling to strongly rolling slopes below 350 m asl
Waihora	Flat to rolling dissected slopes on Taupo flow tephra, occurring frequently as wide infilled valleys between 150-450m asl
Waipapa 9	Moderately steep to steep hills below 800 m asl
Whakamaru	Strongly rolling hills with a deep mantle of Taupo airfall tephra over more weathered tephra over stable ignimbrite below 800m asl



Soil

Forest	Soils
Ātiamuri	Immature Pumice (yellow-brown pumice) soils
Bookers	Recent and Pumice, (recent and recent yellow-brown pumice intergrade) soils
Davies	Recent and Pumice (yellow-brown pumice and recent) soils
Duncan	Allophanic, Pumice and Podzol (yellow-brown loam and yellow-brown pumice) soils
Granite	Coarse-textured, low fertility Pumice (yellow-brown pumice) soils
Kinleith	Allophanic and Pumice (composite yellow-brown pumice soils on yellow-brown loam) soils
Maraeroa C	Pumice (yellow-brown pumice) soils
Maraetai	Allophanic, Pumice and Podzol (yellow-brown loam and yellow-brown pumice) soils
Murphy	Pumice, Allophanic and Podzol (yellow-brown pumice and yellow-brown loam) soils
Ngāruawahia	Ultic, Brown and Allophanic (yellow-brown earths and yellow-brown loam) soils
Pickford	Pumice and Allophanic (yellow-brown pumice and yellow-brown loam) soils
Pinedale	Allophanic, Pumice and Podzol (yellow-brown loam and yellow-brown pumice) soils
Price	Pumice and Allophanic (yellow-brown pumice and yellow-brown loam) soils
Rust	Pumice and Allophanic (yellow-brown pumice and yellow-brown loam) soils
Seal	Medium fertility Pumice and Podzol (yellow-brown pumice / yellow-brown loam) soils
Seven Oaks	Pumice and Allophanic (yellow-brown pumice and yellow-brown loam) soils
Stoneleigh	Pumice and Allophanic (composite yellow-brown pumice soils on yellow-brown loam) soils
Tar Hill	Allophanic, Pumice and Podzol (yellow-brown loam and yellow-brown pumice) soils



Forest	Soils
Taranui Baboon	Allophanic, Pumice and Podzol (yellow-brown loam and yellow-brown pumice) soils
Tatua	Pumice, Podzol and Allophanic (yellow-brown pumice and yellow-brown loam) soils
Te Ranga	Pumice and Allophanic (composite yellow-brown pumice soils on yellow-brown loam) soils
Tokoroa East North	Pumice and Allophanic (composite yellow-brown pumice soils on yellow-brown loam) soils
Waihora	Low fertility, coarse-textured Pumice and Podzol (yellow-brown pumice and podzolised yellow-brown pumice) soils
Waipapa 9	Pumice, Podzol and Allophanic (yellow-brown pumice and yellow-brown loam) soils
Whakamaru	Medium to low fertility Pumice, Podzol and Allophanic (yellow-brown pumice and yellow-brown loam) soils

Climate

Oji's forests fall into either the Bay of Plenty, Manawatu-Wanganui or Waikato regions of New Zealand.

Bay of Plenty Region²

- Rainfall Annual rainfall distribution closely follows the variations in topography, rising from 1,300 mm or less near the coast to around 2,000 mm in the Kaimai and Mamaku Ranges, and over 2,200 mm in the Raukumara Ranges. Rainfall steadily decreases as elevation decreases, with the area around Murupara receiving less than 1,300 mm per year.
- Wind Because of the sheltering provided by the high country to the west, south, and east, the Bay of Plenty lowlands experience considerably less wind than many other parts of the country.
- Temperature the Bay of Plenty region experiences average temperatures of 10 15°
 C in winter months and 18 23° C in the summer.

² Chappell, P. R. (2013). *The Climate and Weather of Bay of Plenty*. 3rd Edition. NIWA Science and Technology Series 62. https://niwa.co.nz/static/BOP%20ClimateWEB.pdf



Manawatu-Wanganui³

- The Manawatu-Wanganui region borders the west coast of the North Island between Wanganui and Levin and covers a 50 km stretch of the east coast south of Cape Turnagain.
- Rainfall: The coastal and lowland area of western Manawatu-Wanganui is one of the
 driest areas in the North Island, receiving < 900 mm of rainfall per year. In contrast,
 higher elevation areas around the Central Plateau, the Ruahine and Tararua Ranges,
 and to the west of Taumarunui, receive more than 2,000 mm per year. The eastern
 Manawatu-Wanganui region generally receives less than 1,200 mm per year.
- Wind: The Ruahine and Tararua Ranges, and the Manawatu Gorge, have a strong
 influence on wind in the southern part of the region. In the hill country, winds tend to
 flow along the line of valleys. Throughout the region, the occurrence of light winds is
 more likely in the low-elevation inland areas than near the coast or at higher
 elevations.
- Temperature: Low-lying areas around the coast have a median annual temperature of around 13.5°C, whereas the inland hill country experiences median annual temperatures of about 11-13°C. Median annual air temperatures are significantly cooler on the Central Plateau and the mountain ranges in the region (< 9°C). In elevated areas, the cooler conditions mean that temperatures will often fall below freezing, especially during the winter.

Waikato Region⁴

- The Waikato region extends from Coromandel Peninsula in the north/east to Mount Ruapehu in the south and covers a large portion of the North Island's West Coast.
- Northerly or westerly winds are prevailing, but wind speed and direction is determined by local topography. Coastal areas and areas of higher elevation tend to be windier than inland or lower lying areas.
- Spring is typically the windiest season for the Waikato region.
- Rainfall patterns are closely linked to elevation and exposure to predominant air flows.
 Areas of higher elevation (Coromandel Ranges or the Central Plateau south of Lake Taupo) tend to have higher annual rainfall (> 2,000 mm per year on average) than lower lying areas (1,000 1,200 mm per year on average).
- Frosting occurs in valleys or flat areas across the region.

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³ Chappell, P. R. (2015). The climate and weather of Manawatu-Wanganui. NIWA Science and Technology Series 66. <a href="https://niwa.co.nz/sites/niwa.co.nz/sit

⁴ Chappell, P. R. (2013). *The Climate and Weather of Waikato*. 2nd Edition. NIWA Science and Technology Series 61. https://niwa.co.nz/sites/niwa.co.nz/files/Waikato%20Climate%20book%20WEB%202021.pdf



3. Ecological Information

Ecological District

Oji's forests fall within the following ten Ecological Districts (ED) and seven Ecological Regions. Some forests fall into more than one ED.

Ecological Region	Ecological District	Forest
		Ātiamuri
		Granite
		Kinleith
	Ātiamuri	Murphy
	Auditiuii	Tar Hill
Central Volcanic Plateau		Taranui Baboon
		Tatua
		Whakamaru
		Seven Oaks
	Taupo	Waihora
		Waipapa 9
King Country	Taumarunui	Stoneleigh
	Otanowainuku	Pickford
Northern Velegnie Plategu	rn Volcanic Plateau Otanewainuku Pric	Price
110/11/01/11 VOIOGITIO I IGLOGIC	Rotorua	Bookers
	Rotorua	Davies
Tainui	Raglan	Ngāruawahia
Waikato	Hamilton	Ngāruawahia
	Pureora	Maraeroa C
		Duncan
		Kinleith
		Maraetai
Western Volcanic Plateau	Tokoroa	Pinedale - Oji
	TOROTOG	Seal
		Te Ranga
		Tokoroa East North
		Whakamaru
Whakatane	Tāneatua	Rust



More information on ED's can be found in the Department of Conservation's Ecological Regions and Districts of New Zealand, published in June 1987 in four parts.

- <u>Ecological Regions and Districts of New Zealand: Part 2</u>

FSC requirement: Ecological District

Oji's forests fall within the ten Ecological Districts (ED) listed in the table below. Seven of Oji's forests (Bookers, Maraeroa C, Ngāruawahia, Pickford, Rust, Stoneleigh and Taranui Baboon) meet the FSC requirement of having at least 10% of their total forest area, by ED, as indigenous reserves.

Ecological District	Forest	Net Stocked Area (ha)	Indigenous Area (ha)	Total Forest Area (ha)	Reserve %	Reserve Shortfall (ha)
	Ātiamuri	679.0	1.4	680.4	0.2%	66.6
	Granite	20.5	0.0	20.5	0.0%	2.0
	Kinleith	299.2	2.1	301.3	0.7%	28.1
Ātiamuri	Murphy	74.5	4.4	79.9	5.5%	3.6
Atlamuri	Tar Hill	279.3	20.7	300.0	6.9%	9.3
	Taranui Baboon	18.8	2.2	21.0	10.4%	N/A
	Tatua	126.2	8.8	135.0	6.5%	4.7
	Whakamaru	344.1	12.0	360.7	3.3%	24.1
Hamilton	Ngāruawahia	84.3	14.0	98.3	14.2%	N/A
Otanewainuku	Pickford	50.4	7.8	71.5	10.9% N/A	N/A
Otanewainuku	Price	34.5	1.9	39.4	4.8%	2.0
Pureora	Maraeroa C	56.0	21.2	77.2	27.4%	N/A
Ragian	Ngāruawahia	690.6	192.0	882.6	21.8%	N/A
Rotorua	Bookers	144.8	20.4	165.2	12.3%	N/A
Rotorua	Davies	120.2		120.2	0.0%	12.0
Tāneatua	Rust	134.2	86.8	269.2	32.2%	N/A
Taumarunui	Stoneleigh	137.5	31.1	168.6	18.4%	N/A
	Seven Oaks	479.2	48.0	577.7	8.3%	9.8
Taupo	Waihora	275.0	4.3	279.3	1.5%	23.6
	Waipapa 9	293.4	6.8	300.2	2.3%	23.2
	Duncan	220.8		220.8	0.0%	22.1
Tokoroa	Kinleith	985.3	30.5	1,036.1	2.9%	73.1
	Maraetai	314.0	8.1	335.6	2.4%	25.5



Pinedale - Oji	241.4	1.7	243.1	0.7%	22.6
Seal	35.4	0.8	36.2	2.1%	2.8
Te Ranga	408.9	6.2	415.1	1.5%	35.3
Tokoroa East North	324.9		324.9	0.0%	32.5
Whakamaru	6.2		6.2	0.0%	0.6

The remaining 18 forests do not meet the 10% threshold. To offset the shortage in reserve areas, Oji will either need to:

- 'borrow' from other forests within the PF Olsen FSC Group Scheme that are in the same ED, and/or
- offset the shortfall by donating to an ecosystem restoration project/s within each of the affected ED's.

As there are insufficient other reserve areas available for Oji to 'borrow', the following shortfalls will need to be offset⁵ each year.

Ecological District	Remaining Shortfall (ha)	Offset (\$)	
Ātiamuri	116.3	\$3,315.71	
Rotorua	8.4	\$239.48	
Taupo	47.1	\$1,342.82	
Tokoroa	212.1	\$6,046.97	
Total	383.9	\$10,944.99	

Threatened Environments Classification

Across the Oji forests:

- 16.4% of the total reserves fall into the < 10% remaining category (most threatened)
- 1.1% fall into the 10 20 % remaining category
- 22.8% fall into the 20 30 % remaining category
- 17.7% fall into the > 30% remaining and 10 20% protected category
- 43.7% fall into the > 30% remaining and > 20% protected category (least threatened).

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⁵ The offset is calculated at \$28.51 per hectare



Threatened Environments Classification Forest	< 10% remaining	10 – 20% remaining	20 – 30% remaining	>30% remaining & <10% protected	>30% remaining & 10 - 20% protected	>30% remaining & >20% protected	Total Area (ha)
Ātiamuri			1.4				1.4
Bookers	18.7				1.7		20.4
Davies							-
Duncan							-
Granite							-
Kinleith	14.3		5.0			13.3	32.6
Maraeroa C						21.2	21.2
Maraetai	0.3		7.8				8.1
Murphy	1.8		2.3		0.4		4.4
Ngāruawahia	15.5	3.0				187.5	206.0
Pickford		2.9			4.9	0.4	8.2
Pinedale	1.7						1.7
Price	0.2				1.7		1.9
Rust					88.5	2.5	91.1
Seal			0.4			0.3	0.8
Seven Oaks			57.5				57.5
Stoneleigh			28.2			2.9	31.1
Tar Hill	2.9		13.9		1.1	2.8	20.7
Taranui Baboon	1.0		1.2				2.2
Tatua	8.8		0.0				8.8
Te Ranga	4.7		0.7		0.7		6.2
Tokoroa East North							-
Waihora		0.0	2.8			1.5	4.3
Waipapa 9			6.8				6.8
Whakamaru	8.9		3.0			0.0	12.0
Total Area (ha)	78.9	5.9	131.0		99.1	232.3	547.2



4. Cultural and Social Aspects

Forest history

Oji purchased the Carter Holt Harvey Kinleith and Tasman Pulp and Paper Mills, along with some of Kinleith Forest in 2014. Since then, Oji has acquired other freehold and forestry right land, with the most recent freehold being Tar Hill Forest in 2022 and Ngāruawāhia Forest in 2020.

Current social profile

The predominant land uses surrounding the Oji forests are a mixture of pastoral farming and plantation forestry, with small rural towns servicing the predominantly rural communities. The forests contribute to the social profile of the area. There is a modest contribution to the local economy by way of added incremental employment.

Historic and archaeological sites

Records from the 'Archsite' web resource indicate that five of the Oji forests (Bookers, Davies, Seven Oaks, Tokoroa East North and Whakamaru) have 78 archaeological sites within the forest boundaries (Appendix 3). The remaining forests have no recorded archaeological sites.

Tangata Whenua

Oji has a long association with Raukawa, primarily because of Kinleith Mill. They are currently working together on a restoration project along the Waipuna and Kopakorahi stream in Kinleith Forest.

Tenure & resource rights

Oji has two forestry rights in place with iwi:

- Waipapa 9 Trust for Waipapa 9 Forest
- Maraeroa C Incorporation for Maraeroa Forest

The following iwi have Treaty Settlements over Oji's forests. There are no iwi settlements for Bookers, Davies and Pickford. Affect must also be given to iwi management plans, where such plans exist.



lwi	Forest/s	Legislation	lwi Management Plans
Maniapoto	Maraeroa CStoneleigh	Seeking mandate	Maniapoto Environmental Management Plan
Ngāti Tūwharetoa	 Ātiamuri Granite Kinleith Maraeroa C Maraetai Seven Oaks Tar Hill Taranui Baboon Tatua Waihora Waipapa 9 Whakamaru 	Under negotiation	Ngāti Tūwharetoa Environmental lwi Management Plan
Raukawa	 Ātiamuri Duncan Granite Kinleith Maraetai Pinedale - Oji Seal Seven Oaks Tar Hill Taranui Baboon Tatua Te Ranga Tokoroa East North Waihora Waipapa 9 Whakamaru 	Raukawa Claims Settlement Act 2014	• <u>Te Raukawa Taiao a</u> <u>Raukawa – Raukawa</u> <u>Environmental</u> <u>Management Plan</u>
Te Arawa (Affiliates)	 Ātiamuri Murphy Price Seal Taranui Baboon Tokoroa East North 	 Affiliate Te Arawa Iwi and Hapu Claims Settlement Act 2008 Te Arawa Lakes Settlement Act 2006 	Te Arawa River Iwi Trust Environmental Plan
Tūhoe	• Rust	Deed of Settlement	•



Waikato- Tainui	Ngāruawahia	Waikato Raupatu Claims Settlement Act 1995	Waikato-Tainui Environmental Plan
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Neighbours

Appendix 4 lists the forest neighbours for each of Oji's forests. Some or all of these parties should be consulted when operations are proposed in forest areas adjacent to their boundaries.



5. Regulations

National Environmental Standards for Commercial Forestry (NES-CF) Erosion Susceptibility Classification

The NES-CF regulations are generally based on the Erosion Susceptibility Classification (ESC) of the underlying land.

The table below shows the productive plantation area of each of Oji's forests by the respective National Environmental Standards for Commercial Forestry (NES-CF) Erosion Susceptibility Classification (ESC). Four of Oji's forests have part of their area within the ESC orange zone, but none have area in the ESC red zone.

Oji's forests are located on generally low erosion risk areas. The majority of the forest activities will be permitted activities under the NES-CF, if the permitted activity standards are met.

Productive plantation area (ha) within each ESC Class

Forest	Low	Moderate	High	Other ⁶	Total Area (ha)
Ātiamuri	600.2	78.8			679.0
Bookers	16.6	11.6	115.7	0.9	144.8
Davies	6.5	76.7	37.0		120.2
Duncan		220.8			220.8
Granite	20.5				20.5
Kinleith	756.6	527.9			1,284.5
Maraeroa C	56.0				56.0
Maraetai	144.7	169.4			314.0
Murphy		74.5			74.5
Ngāruawāhia	633.5	141.4			774.9
Pickford		23.3	27.1		50.4
Pinedale - Oji	129.1	112.3			241.4

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⁶ Other refers to areas of water, shingle etc



Forest	Low	Moderate	High	Other ⁶	Total Area (ha)
Price	2.4	32.1			34.5
Rust		42.0	92.2		134.2
Seal	35.4	0.0			35.4
Seven Oaks	96.7	382.5			479.2
Stoneleigh	65.3	72.1			137.5
Tar Hill	43.7	235.6			279.3
Taranui Baboon	10.7	8.1			18.8
Tatua		126.2			126.2
Te Ranga	317.7	91.2			408.9
Tokoroa East North	309.6	15.3			324.9
Waihora	99.2	175.8			275.0
Waipapa 9		293.4			293.4
Whakamaru Forest	323.4	26.9			350.3
Total Area (ha)	3,667.7	2,937.6	272.0	0.9	6,878.3

Council RMA Plans

The following table lists the rules in each District or Regional Plan that may be more stringent than the NES-CF rules.

Council	Rule/s
South Waikato	• N/A
Taupo District Council	4b.1.7i Planted Tree Vegetation Planting Setback
	25.25 Earthworks
	25.41 Production Forestry
	25G.2 General Rule
Waikato District Council	25G.4 Production Forestry
	25G.5 Forestry Mineral Extraction
	26.40 Production Forestry



Council	Rule/s				
	26A.60 Production Forestry – Indigenous and Exotic				
	27.38 Production Forestry				
	Schedule 25G				
	Oa Forestry Harvesting Notice				
	Plantation forestry on significant archaeological sites				
	Plantation forestry on Sites and Areas of Significance to Māori				
	Plantation forestry afforestation and harvesting in SNAs				
	Earthworks within 5 metres of a waterbody				
	Earthworks in Outstanding Natural Features and Landscapes				
Waitomo District Council	 Forestry quarrying in Outstanding Natural Features and Landscapes 				
	Plantation forest harvesting in Outstanding Natural Features and Landscapes				
	Any earthworks or vegetation clearance within 20 metres of a karst cave or sinkhole				
	Harvesting of plantation forest within 1 km of a drinking water supply for 25 people or more				
	Forestry quarrying over a shallow water table above an aquifer used for human drinking water				
Western Bay of Plenty	Section 6 Landscape – rules around natural features and				
District Council Whakatāne District	landscapes, management areas and viewshafts				
Council	N/A				
Bay of Plenty Regional	N/A				
Council	Outstanding freshwater bodies: One Plan Schedule B Surface				
	Water Management Values				
Horizone Pogional Council	Significant natural areas: One Plan Schedule F Indigenous				
Horizons Regional Council	Biological Diversity - Whole schedule (Pages F1-F16)				
	Outstanding natural features or landscapes: One Plan				
	Schedule G Regionally Outstanding Natural Features and				



Council	Rule/s
	Landscapes - Whole schedule (Pages G1-G4). ONFL described in Schedule G will generally be mapped in the relevant District Plan. Water Conservation Orders - National Water Conservation (Rangitikei River) Order 1993 - National Water Conservation (Manganuioteao River) Order 1989
Waikato Regional Council	3.10.5.2 Nitrogen Leaching Non-Farming Activities 3.10.5.5 Development of Non-Ngati Tuwharetoa Forestry and Undeveloped Land 7.6.6.3 Activities in the Vicinity of Significant Geothermal Features

If resource consents are required at any stage, consideration may also need to be given to iwi management plans.

- Waikato region iwi and hapū management plans
- Bay of Plenty region iwi and hapū management plans
- Manawatū-Wanganui region iwi and hapū management plans

Consents & authorities held

There are no current resource consents or Archaeological Authorities relevant to any of the Oji forests. Any consents or authorities that are required will be obtained prior to harvest starting.

Emissions Trading Scheme

The following Oji forests have areas registered under the New Zealand Emissions Trading Scheme (ETS).

Forest	Area (ha)	
Bookers	144.1	
Murphy	79.2	
Pickford	58.8	
Price	34.7	
Rust	176.9	



Stoneleigh	41.5
Total	535.1



6. Managing environmental risk

Assessment of environmental risks

Refer to the Standard FSC Forest Management Plan.

Infrastructure damage or service disruption

The following infrastructure is within/adjacent to Oji's forests. It is recognised that forestry operations may have an impact on the infrastructure. Any potential adverse effects are managed through operational plans.

Forest	Electricity Line	Fibre Optic Cable	Gas Pipeline	Telephone Line	Water Pipeline
Ātiamuri	X				
Bookers	Х				
Davies	Х				
Kinleith	Х		Х	Х	Х
Ngāruawahia	Х			X	
Pickford	Х				
Rust	Х				
Seven Oaks	Х				
Stoneleigh	Х	Х			
Tar Hill	Х				X
Waihora	Х				
Waipapa 9	Х				
Whakamaru Forest	Х				



Pests and diseases

The Waikato, Horizons and Bay of Plenty Pest Management Plans include plant and animal pest species that are or may be present within the forests. The table below lists those key species. A full list of species can be found in the respective pest management plans:

- Waikato Regional Pest Management Plan 2022 2032 Tütohu Mahere Whakahaere Ā-Roheo Waikato Mō Ngā Kīrearea
- Horizons Regional Council Regional Pest Management Plan 2017 2037
- Regional Pest Management Plan for the Bay of Plenty Region Te Mahere Patu Kīrearea ā-Rohe e Marohitia Ana mō Toi Moana 2020 – 2030

Key Pest Species	Waikato Region	Manawatū-Wanganui Region	Bay of Plenty Region
Blackberry	Site-led (Wetlands)	Progressive Containment	Sustained Control
Broom	Sustained Control	Progressive Containment	N/A
Darwin's Barberry	Progressive Containment	Progressive Containment	Exclusion / Progressive Containment
Gorse	Sustained Control	Progressive Containment	Sustained Control
Nassella Tussock	Eradication	Eradication	Eradication
Nodding Thistle	Sustained Control	Progressive Containment	Advisory Pest
Old Man's Beard	Progressive Containment	Progressive Containment	Progressive Containment / Sustained Control
Pampas	Sustained Control	N/A	Advisory Pest
Plumeless Thistle	Sustained Control	N/A	Advisory Pest
Ragwort	Sustained Control		Sustained Control
Variegated Thistle	Eradication	Progressive Containment	Progressive Containment
White Edged Nightshade	N/A		Eradication
Wild Ginger	Sustained Control	N/A	Sustained Control
Wild Kiwifruit	Progressive Containment	N/A	Progressive Containment
Wilding Conifers	Progressive Containment	Progressive Containment	Progressive Containment / Sustained Control
Woolly Nightshade	Progressive Containment / Sustained Control	Eradication	Progressive Containment / Sustained Control



Key Pest Species	Waikato Region	Manawatū-Wanganui Region	Bay of Plenty Region
Feral Goats	N/A	N/A	Eradication / Progressive Containment
Rooks	Eradication	Eradication	Eradication
Wallaby	Exclusion / Progressive Containment	Exclusion	Eradication / Progressive Containment

Fire

Oji's forests fall within the Ngā Tai ki te Puku and Te Ūpoko Forest and Emergency NZ regions for forest fire management. Fire plans contain additional key information regarding the protection of land and management of fires.

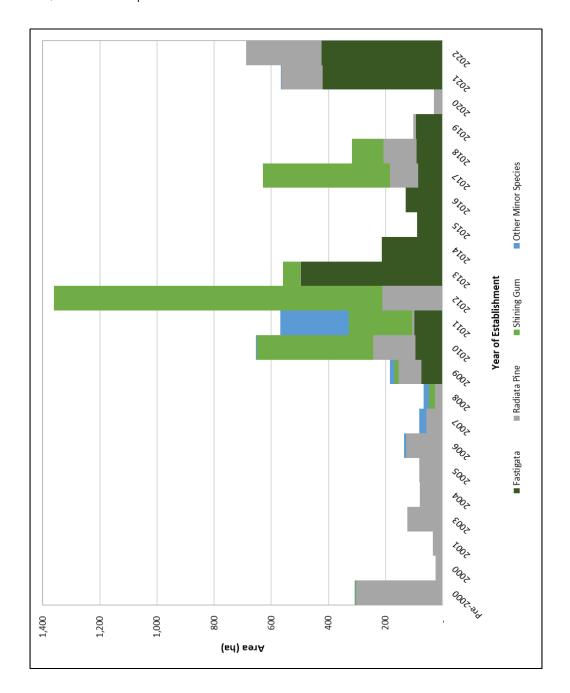
- Fire Plan for Waikato, Ngā Tai ki te Puku, 2021 2024
- Fire Plan for Bay of Plenty, Ngā Tai ke te Puku, 2021 2024
- Fire Plan for Manawatū-Whanganui, Te Ūpoko, 2021 2024



7. Commercial Plantation Estate

Current crop

Oji's forests contain Shining Gum (35%), *Eucalyptus fastigata* (33%), *Pinus radiata* (28%), and other minor species (4%) (as shown below). The majority of the trees were planted from 2000 onwards, with 309 ha planted between 1970 and 2000.





Tending

The table below details the tending regime followed for each species.

Species	Initial Stocking (SPH)	Thinning	Pruning
E. nitens	1,100	N/A	N/A
E. fastigata	1,100	N/A	Form prune, 3.5 – 5.0 years
E. regans	1,100	N/A	N/A
P. radiata	833	550 - 650 SPH at ages 7 - 8	N/A

Tree nutrition

Depending on the forest, before planting any eucalyptus species, 60 g of Balance N-rich Urea is applied per hectare, and at age 1+ 60 g of Ballance Sustain 20k is applied per hectare to manage nitrogen deficiencies.



8. Harvesting Strategy

Harvesting strategy

Oji's planned harvest age for *Pinus radiata is* 26 – 27 years old, while its 16 – 17 years for the eucalypt species. All of the harvested eucalyptus goes to Oji's Mills. However, only the pulp wood from radiata goes to the mills. The rest of the radiata grades will go wherever the market determines at the time.

In the next 5 years, Oji is planning some harvesting in the following forests:

- Pinus radiata harvest:
 - Kinleith (20 ha)
 - Tar Hill (15 ha)
 - Waihora (150 ha)
- Eucalyptus species:
 - Ātiamuri (125 ha)
 - Duncan (8.4 ha)
 - Granite (20 ha)
 - Kinleith (20 ha)
 - Maraeroa C (56 ha)*
 - Maraetai (220 ha)
 - Seven Oaks (360 ha)
 - Pickford (3 ha)
 - Pinedale (241 ha)*
 - Tokoroa East North (46 ha)
 - Taranui Baboon (20 ha)*
 - Te Ranga (400 ha)
 - Waipapa 9 (65 ha)
 - Whakamaru (62 ha)

Forests under forestry right agreements (see Appendix 2) will have land handed back to the appropriate landowners once harvesting has been completed. Productive areas for these forests will decrease over time, and will be kept updated in the PF Olsen FSC Group Scheme Register. Areas within this management plan will be updated as part of the next five yearly forest management plan revision in 2028.

* NOTE: As of the 20 February 2025 Maraeroa C, Pinedale and Taranui Baboon forests have been removed from the PF Olsen FSC Group Scheme. These forests were under forestry right agreements, and have been handed back to the landowners upon completion of harvest.



Information regarding these forests will remain within this Forest Management Plan, until the next five yearly plan update in 2028.

Infrastructure

Infrastructure is largely in place throughout Oji's estate, as the current plantation forest are in their 2nd or 3rd rotations. Over the next five years the roads and entrance way to Waihora Forest will need to be upgraded. In the forests where eucalyptus species are present only road maintenance will need to be carried out. Infrastructure upgrades will be required in both Waipapa 9 and Seven Oaks.



9. Indigenous Biodiversity

Protected ecosystems

Protected ecosystems are the areas of indigenous vegetation within each forest that have been identified as part of the ecological survey. These areas are not legally protected but are protected instead under the FSC Principles and Criteria.

Many of Oji's forests have identified Significant Natural Areas (SNAs) within the forest boundaries. Appendix 5 lists the areas of SNAs within each forest.

NOTE: some of the SNAs overlap with plantation area so the total protected ecosystem area for a forest may be larger than the total indigenous area's given in other tables.

There are no QEII covenants with the Oji forests, but two open space QEII covenants are adjacent to Pickford Forest (Covenant ID 5-03-562 and 5-03-738).

Forest	Protected Ecosystems	SNAs	Total (ha)
Ātiamuri	1.4	9.0	10.4
Bookers	1.3	19.4	20.7
Davies	-	-	0.0
Duncan	-	14.3	14.3
Granite	-	8.3	8.3
Kinleith	17.4	69.7	87.1
Maraeroa C	21.2	-	21.2
Maraetai	8.1	7.1	15.2
Murphy	4.4	-	4.4
Ngāruawahia	206.0	-	206.0
Pickford	8.2	0.01	8.2
Pinedale - Oji	1.1	25.5	26.6
Price	1.9	-	1.9
Rust	75.3	15.8	91.1
Seal	0.8	-	0.8
Seven Oaks	11.6	45.9	57.5
Stoneleigh	19.8	15.2	35.0
Tar Hill	1.9	128.7	130.6
Taranui Baboon	1.3	7.7	9.0



Forest	Protected Ecosystems	SNAs	Total (ha)
Tatua	8.8	-	8.8
Te Ranga	6.2	12.2	18.4
Tokoroa East North	-	69.2	69.2
Waihora	4.3	1.5	5.8
Waipapa 9	6.8	-	6.8
Whakamaru Forest	3.4	39.6	43.0
Total (ha)	411.2	489.11	900.3

High Conservation Value (HCV) Forests

There are two wetlands identified as HCVF in the Oji forests, both in Bookers Forest. The first area is adjacent to a pond and consists of a 5.6 ha riparian zone (RIPR-02, Wīwī-soft rush-paspalum rushland⁷) and 8.6 ha of wetland (WETL-01, Grey willow/Machaerina rubginosa-mānuka-raupō-blackberry-swamp millet sedge-shrubland).

The second area is another amalgamation of 1.1 ha of riparian vegetation, 3.7 ha of wetlands (WETL-02, WETL-03, WETL-04 and WETL-05) and one hectare of grass (LGRA-01).

The management plans for these HCVFs are in Appendix 6. Appendix 7 details the generic ecological management plans for each forest.

Threatened species

Based upon the findings of the ecological survey and report by Wildlands⁸ the following species are either present or very likely to be present within Oji's forests. Only species listed as more than 'Not Threatened' under the <u>New Zealand Threat Classification System</u> are listed in the table below.

Where North Island Brown Kiwi, Karearea or bats are known to be present <u>forest industry</u> <u>management protocols</u> will be followed.

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⁷ Wildlands. (2022). Natural area identification and assessment in 25 plantation forests managed by PF Olsen Ltd in the Central North Island. Contract Report No. 6389.

⁸ Wildlands. (2022). Natural area identification and assessment in 25 plantation forests managed by PF Olsen Ltd in the Central North Island. Contract Report No. 6389.



Bats

Long-tailed bats are likely to be present in Kinleith, Pickford, Pinedale – Oji, Ngāruawahia, Te Ranga, and Waihora forests as suitable bat habitat is present. Pre-harvest surveys are recommended.

Lizards

No lizard species were found during the survey period. However, several lizard species have been recorded near to some Oji forests during other surveys, and suitable lizard habitat is present in several of Oji's forests. Separate lizard surveys are recommended for Kinleith, Maraeroa C, Ngāruawahia, Pickford, Rust, Seven Oaks, Stoneleigh, Waihora.

Other Species

Other species may be present within the forests. <u>iNaturalist</u> (Biodiversity in Plantations) will be used to record sightings.

Species	Ātiamuri	Bay of Plenty	Ngāruawahia	Taupo	Tokoroa	Waitomo
Long-tailed bats						
Central lesser short-tailed bats						
Australasian Bittern / Matuku						
Black Shag / Māpunga						
Fernbird / Mātātā						
Grey Duck / Pārera						
Kākā						
Kākāriki						
Long-tailed Cuckoo / Koekoeā						
Little Black Shag / Kawau Tūī						
Marsh Crake						
New Zealand Dabchick / Weweia						
New Zealand Falcon / Karearea						
New Zealand Robin / Toutouwai						
New Zealand Pipit / Pīhoihoi						



Species	Ātiamuri	Bay of Plenty	Ngāruawahia	Taupo	Tokoroa	Waitomo
North Island Kōkako						
North Island Weka						
Riflemen / Tītitipounamu						
Spotless Crake / Pūweto						

Fish

Fish species likely to be within Oji's forests have been identified from the NES-CF Fish Spawning Indictor tool and Freshwater Environments New Zealand.

Forest	Banded Kokopu	Brown Trout	Giant Kokopu	Koaro	Longfinned Eel	Rainbow Trout	Redfin Bully
Ātiamuri							
Bookers							
Davies							
Duncan							
Granite							
Kinleith							
Maraeroa C							
Maraetai							
Murphy							
Ngāruawahia							
Pickford							
Pinedale - Oji							
Price							
Rust							



Forest	Banded Kokopu	Brown Trout	Giant Kokopu	Koaro	Longfinned Eel	Rainbow Trout	Redfin Bully
Seal							
Seven Oaks							
Stoneleigh							
Tar Hill							
Taranui Baboon							
Tatua							
Te Ranga							
Tokoroa East North							
Waihora							
Waipapa 9							
Whakamaru Forest							



10. Other Special Values: Everything but the timber

Recreation

Oji's forests are open for recreation subject to safety requirements. Any approved access is managed through the PF Olsen Forest access permit system (for areas outside legal public access areas). For information on how to apply for a permit, please phone the PF Olsen Central North Island Office 07 921 1010.

Following the intent of the Outdoor Access Code⁹ (published by Herenga ā Nuku - Outdoor Access Commission) and any signage / barriers in place within the forest, is expected behaviour of forest visitors. Closures will also apply during times of high fire risk, any *force majeure* state and during forestry operations.

- Tokoroa Pig Hunting Club have winter access into Kinleith Forest and a lot of the surrounding forestry right land (Tokoroa East North, Te Ranga, Atiamuri, Maraetai, and Whakamaru forests).
- Both Herenga ā Nuku Outdoor Access Commission (OAC) and the Department of Conservation (DOC) have access into Ngāruawahia Forest. Note: Oji have also allowed access along one of the private forestry tracks to enable access the Te Puroa Reserve.
- A small motorbike group uses Kinleith Forest for dirt bike riding.

Public access roads

According to the information available on the Herenga ā Nuku Outdoor Access Commission (OAC) website¹⁰, there are no unformed legal roads running through Oji's forests.

Five of the forests are adjacent to public conservation land, marginal strips / esplanade reserves or mountain biking tracks (see the table below). To learn about access these areas either visit the OAC website or contact the Council or local Department of Conservation office.

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⁹ https://www.walkingaccess.govt.nz/assets/Publication/Files/Outdoor-Access-Code/Ofcf4d2e5b/Outdoor-Access-Code.pdf

¹⁰ https://www.herengaanuku.govt.nz/



Anyone who accesses Oji's forests for recreation use is expected to abide by the intent of the Outdoor Access Code¹¹ published by the OAC, or signage or barriers places at track or public access points.

Forest	Access
Granite	Waikato River Trail (mountain bike) – no access via forest
Ngāruawahia	DOC Public Conservation – Te Puroa Scenic Reserve
Pinedale - Oji	DOC Public Conservation – Oraka Stream Marginal Strip
Stoneleigh	Waitomo District Council Esplanade Reserve
Waihora	 Great Lake Trail (mountain bike) – no access via forest Hingarae Scenic Reserve

Other special values

Currently, possums are being trapped for fur and pet food in both Ngāruawāhia and Bookers forests. There are beehives are in Ngāruawāhia, Bookers, Davies, Pickford, and Price forests.

These are likely to continue and potentially increase subject to appropriate agreements and management of conflicts.

Non-Timber Forest Products

There are no FSC certified non-timber forest products¹² arising from the PF Olsen FSC Group Scheme member estate.

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¹¹ https://www.herengaanuku.govt.nz/knowledge/responsible-behaviour/the-outdoor-access-code-2/

¹² In FSC standards, the reference to non-timber forest products is a reference to such products that are able to carry the FSC label. It is not a reference to the presence or absence of other co-products from the forest areas that do not seek to carry the FSC label.



11. Future Planning

Plan changes & reviews

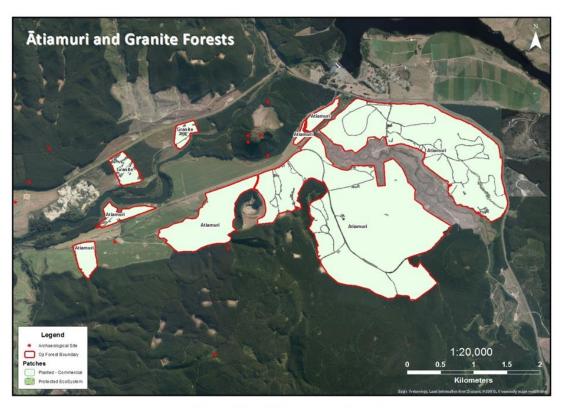
The next major review date for this plan is 2028.

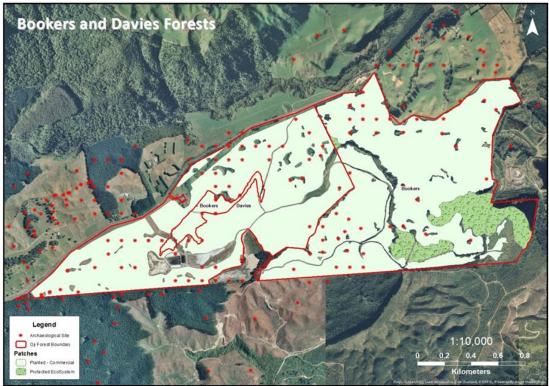
Minor revisions may be made at any time. Any material changes made will be documented below.

Change	Date	Section/Page
Moved whole FMP to new template	Aug-24	Whole plan
Updated NES-PF to NES-CF in Regulations	Sept-24	Page 24
Updated Foundation Principle	Sept-24	Page 4
Updated ecological equivalence	Oct-24	Page 19
Added in more references to 'Oji'	Nov-24	Whole plan
Included notes about how areas of forests harvested under forestry right will be returned to landowners upon completion of harvest. Once entire forest is harvested the forest will be removed from the PF Olsen FSC Group Scheme	Feb-25	Pages 5, 10 & 33

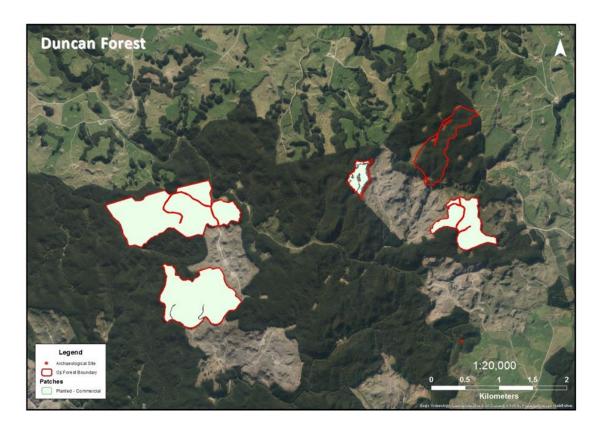


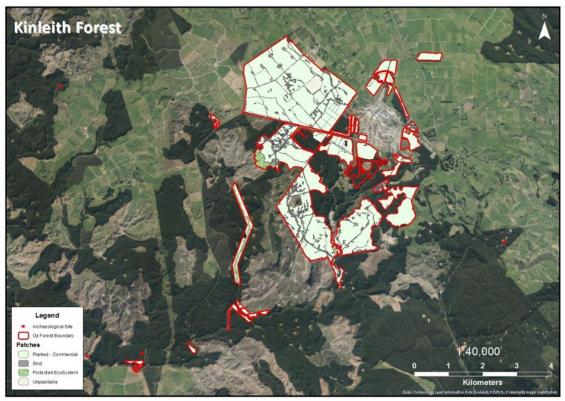
Appendix 1: Oji's Forest Maps





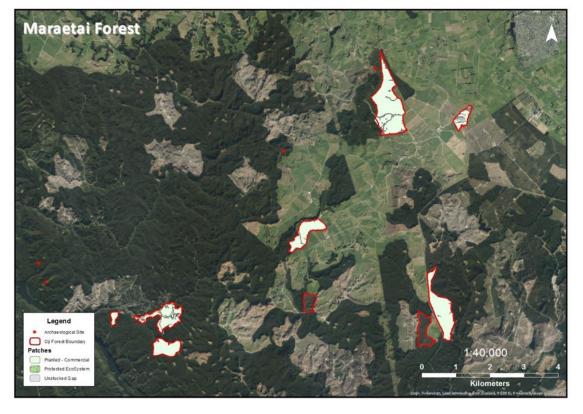






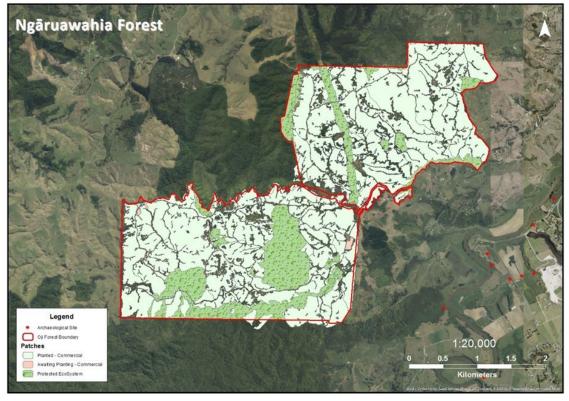




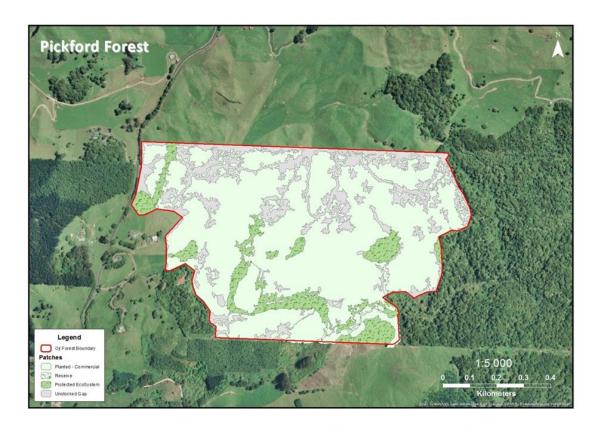


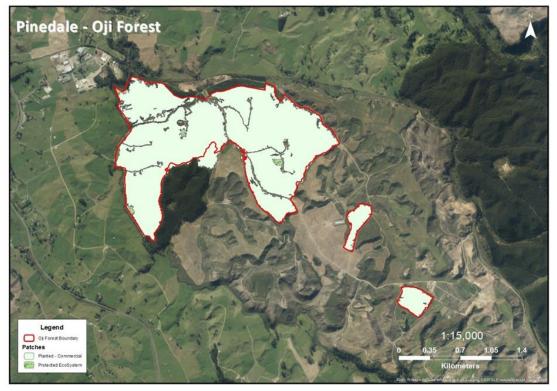




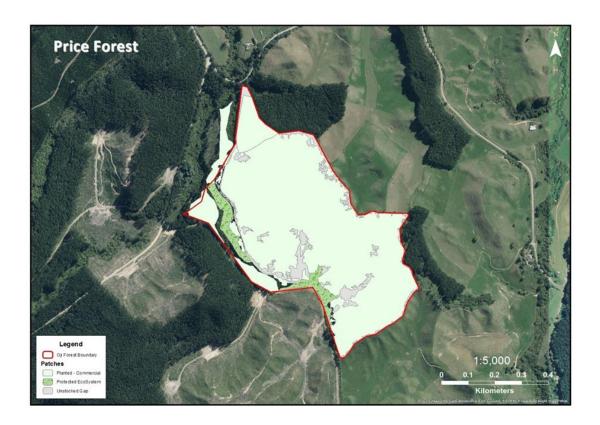


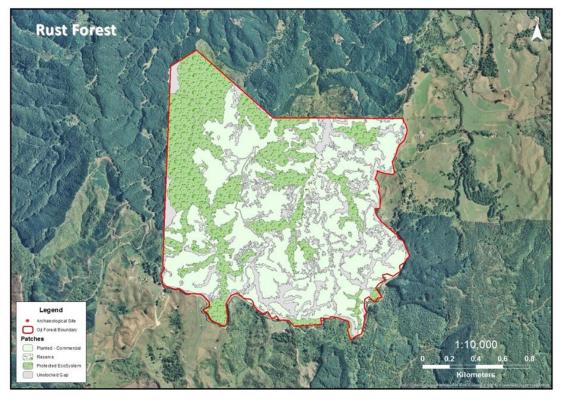






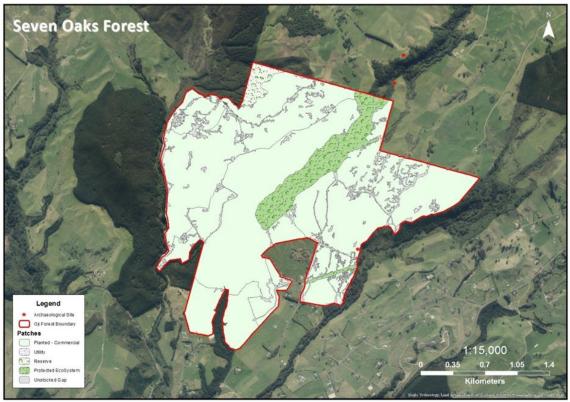




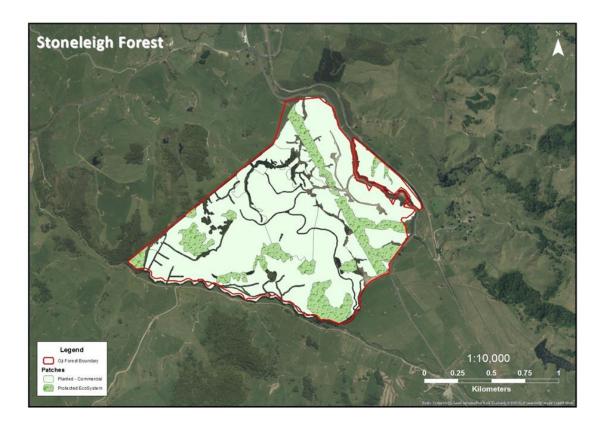


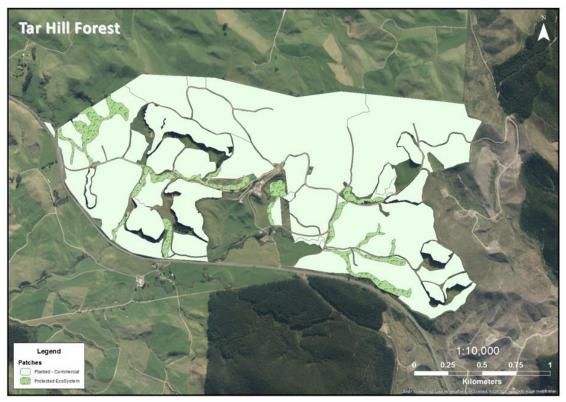




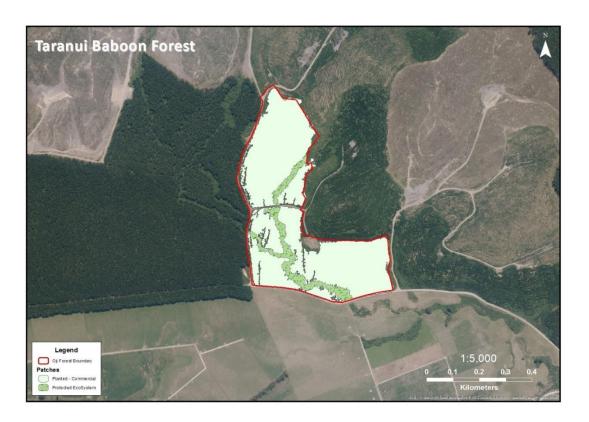


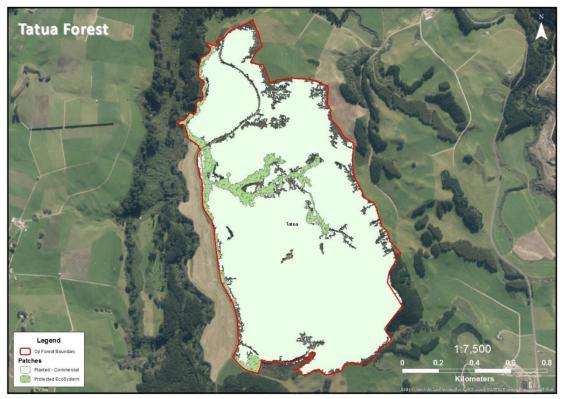




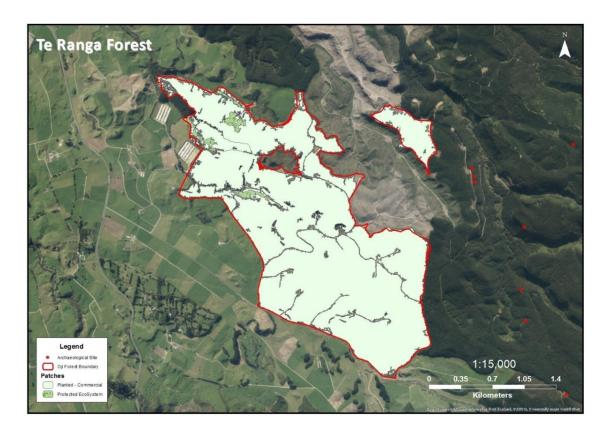


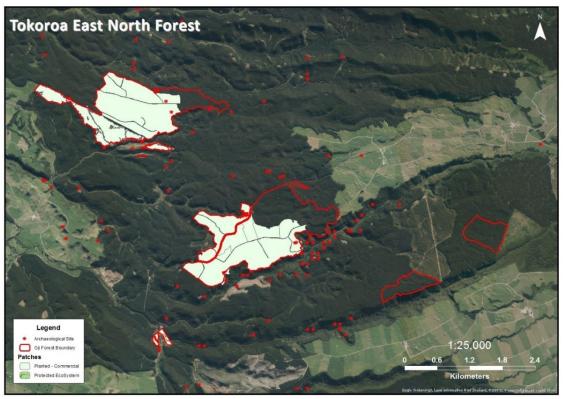




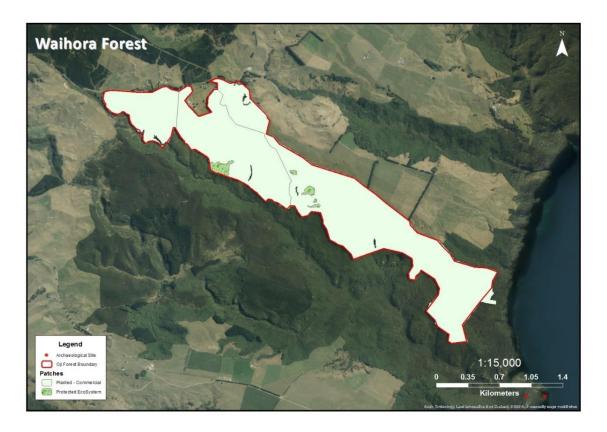


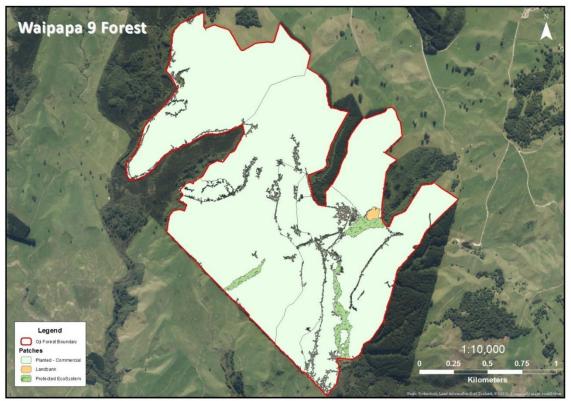




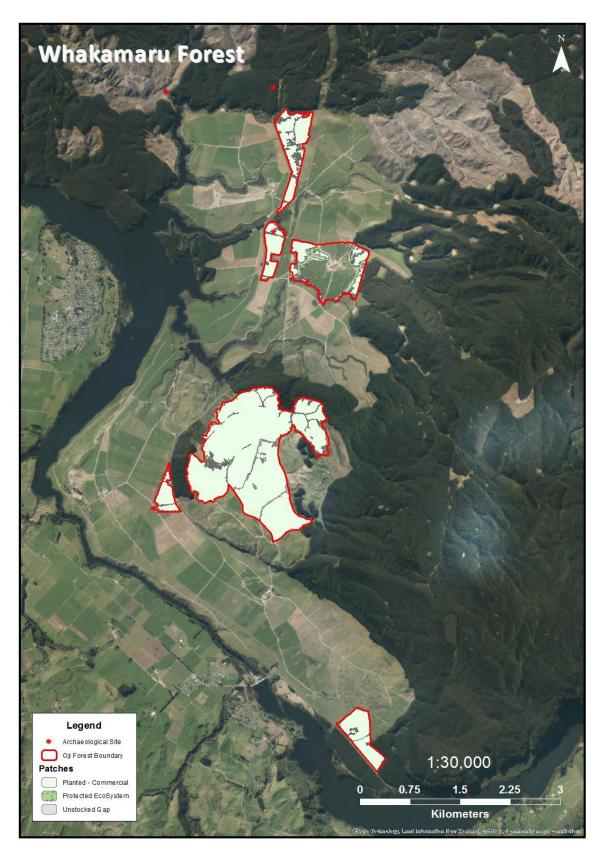














Appendix 2: Legal Description of Oji's Forests

Forest	Legal Description	Tenure
Ātiamuri	455763, Lot 2 DP409652 455763, Lot 9 DP 409652 455768, Lot 14 DPS 11436	Forestry Right
Bookers	SA 46D/801, Pt Allotment 330, Matata PSH SA 48A/10, Pt Allotment 331, Matata PSH	Freehold
Davies	SA 46D/801, Pt Allotment 330, Matata PSH	
Duncan	529224, Lot 2, DP 434 079	Forestry Right
Granite	517711, Lot 6, DP 399187	Forestry Right
Kinleith	44425, lot 2, DP 411958 504465, Lot 3, DP 426538 511219, Lot 1, DP 425239 511219, Lot 1, DPS 85434 SA67D/981, Lot 1, DPS 51282	Freehold
Maraeroa C	228046, Lot 2, DP 355898	Forestry Right
Maraetai	449671, Lot 1, DP 413316 499513, Lot 4, DP 425239 537062, Lot 1, DP 430232 SA6B/296, Lot 1, DP 18970	Forestry Right
Murphy	SA67B/184, Lot 2, DPS 84776	Freehold



Forest	Legal Description	Tenure
Ngāruawāhia	462409, Allotment 64B4B4B, Waipa PSH 462475, Allotment 63F11, Waipa PSH Pt Allotment 58B1, Waipa PSH Pt Allotment 58B2A, Waipa PSH Pt Allotment 64, Waipa PSH Pt Allotment 64, Waipa PSH SA25D/1276, Section 27 Blk X, Newcastle SD SA37B/816, Allotment 453, Waipa PSH SA37B/816, Section 32 Blk X, Newcastle SD SA37B/816, Section 34 Blk X, Newcastle SD SA37B/816, Section 35 Blk X, Newcastle SD SA37B/816, Section 37 Blk X, Newcastle SD SA42B/222, Allotment 64B4B5, Waipa PSH SA692/310, Pt Lot 2, DP 26856 SA704/9, Section 5 Blk X, Newcastle SD SA704/9, Section 8 Blk X, Newcastle SD SA704/9, Section 18 Blk X, Newcastle SD SA704/9, Pt Section 11 Blk X, Newcastle SD SA704/9, Section 12 Blk X, Newcastle SD SA704/9, Section 13 Blk X, Newcastle SD SA1028/141, Pt Section 9 Blk X, Newcastle SD SA1053/70, Lot 1, DP 35556 SA1115/59, Lot 1, DP 36556	Freehold
Pickford	SA59D/700, Lot 1, DPS 74419	Freehold
Pinedale	547487, Lot 2, DP 440533 547487, Lot 3, DPS 88350	Forestry Right
Price	Section 26 Blk X, Waihi South SD SA58B/773, Lot 1, DPS 72636	Freehold
Rust	SA67B/585, Lot 1, DPS 86102	Freehold
Seal	504464, Lot 2, DP 426538 504464, Lot 16, DP 421248	Forestry Right
Seven Oaks	493970, Lot 1, DPS 74084 493970, Lot 2, DP 421722	Forestry Right
Stoneleigh	TNJ3/138, Lot 1, DP 17485 TNJ3/139, Lot 2, DP 17485	Freehold
Tar Hill	248067, Lot 1, DP 361069 248067, Lot 3, DP 361069 248067, Lot 4, DP 361069 248067, Lot 7, DP 361069	Freehold
Taranui Baboon	546239, Lot 3, DP 407148	Forestry Right



Forest	Legal Description	Tenure
Tatua	515182, Lot 2, DP 429 418	Forestry Right
Te Ranga	517678, Lot 2, DP 430239 517679, Lot 3, DP 430239	Forestry Right
Tokoroa East North	517680, Lot 4, DP 430239 517680, Lot 9, DP 430239	Forestry Right
Waihora	SA55A/511, Lot 1, DPS 68640 SA55A/513, Lot 3, DPS 68640 SA58C/685, Lot 1, DPS 75881 Section 1 Blk II, Karangahape SD	Freehold
Waipapa 9	511620, Pt Waipapa, 9	Forestry Right
Whakamaru	511217, Lot 2, DP 428181 511217, Lot 3, DP 428181 511217, Lot 5, DP 428181 511217, Lot 6, DP 425239 511217, Lot 7, DP 425239	Forestry Right



Appendix 3: Archaeological Sites

Forest	GeoUnit	Site ID	Site Description	Easting	Northing
	BOOK-1-1	V15/175	House site - c. 7 x 3 m (with 2 m scarp at rear)	1924880	5783336
	BOOK-1-3	V15/188	Terrace	1924580	5783236
	BOOK-1-3	V15/189	Terrace and rectangular pit	1924380	5783336
	BOOK-1-3	V15/190	House site. Other possible house sites and midden (oven stones and charcoal) located further down ridge	1924480	5783336
	BOOK-1-1	V15/191	Terrace	1924680	5783336
	BOOK-1-3	V15/230	Pit and terrace	1923180	5782633
	BOOK-1-2	V15/232	Pits and a terrace	1923180	5782633
	BOOK-1-1	V15/283	Terrace	1925082	5782436
	BOOK-1-1	V15/316	Pit - approximately 8.8 x 4.3 m	1924481	5782535
	BOOK-1-1	V15/317	Three circular pits	1924180	5782935
	BOOK-1-1	V15/318	Circular pit on a terrace	1924280	5783336
	BOOK-1-1	V15/319	Circular pit - approximately 2.4 m in diameter	1924280	5783436
	BOOK-1-2	V15/320	Terrace and possible rectangular pit	1924279	5783536
Bookers	BOOK-1-2	V15/321	Terrace - 7 x 5.5 m	1924380	5783236
	BOOK-1-1	V15/322	Pit (6.7 x 2.4 m) and a possible house site	1924280	5783436
	BOOK-1-3	V15/323	Terraces and a possible house site	1924280	5783336
	BOOK-1-3	V15/326	Possible house site	1924281	5782234
	BOOK-1-1	V15/327	Terrace	1924281	5782335
	BOOK-1-1	V15/328	Terrace - c. 13.7 x 12.1 m	1924181	5782234
	BOOK-1-1	V15/329	Terrace	1924081	5782234
	BOOK-1-1	V15/330	Terrace - 7 x 5 m	1924162	5782354
	BOOK-1-1	V15/333	Terrace - c. 11 x 11 m	1923981	5782434
	BOOK-1-1	V15/336	Terrace - approximately 4.3 x 5.5 m	1923981	5782534
	BOOK-1-3	V15/337	Terrace	1924081	5782635
	BOOK-1-3	V15/527	Two adjacent terraces - 10 x 5 m and 10 x 10 m	1923080	5782433
	BOOK-1-3	V15/528	A flattened ridge (15 x 50 m) with a single pit (5 x 2.5 x 0.5 m)	1923180	5782633
	BOOK-1-3	V15/529	Three terraces and two pits (9 x 5 x 1.5 m and 8 x 4 x 1 m)	1923179	5782733
	BOOK-1-3	V15/540	Terrace - approximately 30 m long	1924180	5783335



Forest	GeoUnit	Site ID	Site Description	Easting	Northing
	BOOK-1-3	V15/1349	Terrace	1925199	5782889
	BOOK-1-3	V15/1352	Terrace	1924145	5782499
	BOOK-1-3	V15/1353	Terrace	1924174	5782591
	BOOK-1-2	V15/1354	Terrace	1924263	5782521
	BOOK-1-2	V15/1355	Terrace	1924748	5782480
	BOOK-1-2	V15/1376	Two large terraces (25 x 20 m and 20 x 13 m) separated by a knoll remnant on the south side.	1923763	5782219
	BOOK-1-1	V15/1637	Pit on low ridge	1923363	5782765
	DAVS-1-1	V15/212	Terrace	1922580	5782232
	DAVS-1-1	V15/216	Rectangular pit	1922780	5782432
	DAVS-1-1	V15/217	Terrace	1922679	5782432
	DAVS-1-1	V15/225	Three terraces	1923479	5783134
	DAVS-1-1	V15/226	Pit and terraces	1923579	5783134
	DAVS-1-1	V15/227	Terrace	1923379	5783034
	DAVS-1-1	V15/228	Terraces	1923279	5782834
	DAVS-1-1	V15/231	Terrace, pit and hut site	1923179	5782833
	DAVS-1-1	V15/335	Pit - approximately 4.9 x 3.6 m	1923880	5782534
	DAVS-1-1	V15/339	Terrace	1923579	5783034
	DAVS-1-1	V15/340	Pit and terraces	1923679	5783134
Davies	DAVS-1-1	V15/341	Pits and terraces	1923879	5783235
Davies	DAVS-1-1	V15/342	Terrace	1923980	5783135
	DAVS-1-1	V15/345	Terraces	1923180	5782233
	DAVS-1-1	V15/346	Terrace	1923080	5782133
	DAVS-1-1	V15/347	Terrace	1922980	5782132
	DAVS-1-1	V15/352	Hut site / terrace located on ridge	1922155	5782047
	DAVS-1-1	V15/353	Pit	1922024	5782068
	DAVS-1-1	V15/356	Two pits on a large flat area; on a knoll	1922279	5782232
	DAVS-1-1	V15/357	Pit	1922379	5782332
	DAVS-1-1	V15/358	Terrace	1922479	5782232
	DAVS-1-1	V15/359	Terrace	1922479	5782432
	DAVS-1-1	V15/360	Pit	1922579	5782432
	DAVS-1-1	V15/361	Pit and terrace	1922679	5782432



Forest	GeoUnit	Site ID	Site Description	Easting	Northing
	DAVS-1-1	V15/521	An artificially flattened saddle and knob on the ridge. One rectangular pit and vague depressions.	1921879	5782031
	DAVS-1-1	V15/522	Pit - 7 x 4 x 0.5 m deep	1922379	5782432
	DAVS-1-1	V15/523	Terrace - 10 x 5 m	1922580	5782232
	DAVS-1-1	V15/524	Pit and terrace	1922780	5782432
	DAVS-1-1	V15/530	Terrace (10 x 12 m) cut into a knoll	1923080	5782633
	DAVS-1-1	V15/531	Terrace - 15 x 60 m	1923880	5783035
	DAVS-1-1	V15/533	A series of terraces	1922880	5782132
	DAVS-1-1	V15/536	Terrace - c. 8 x 20 paces	1923180	5782233
	DAVS-1-1	V15/541	Terrace	1923980	5783135
	DAVS-1-1	V15/543	III-defined pit - 8 x 3 paces	1923379	5783134
	DAVS-1-1	V15/544	Terrace - 11 paces long	1923379	5783134
	DAVS-1-1	V15/545	Pit and terrace	1923279	5783034
	DAVS-1-1	V15/547	Flattened knoll sloping down to ridge terraces. Middle terrace contains two pits.	1923179	5782934
	DAVS-1-1	V15/563	Terrace and a possible pit	1923779	5783335
Seven Oaks	OAKS-1-15	т17/8	Source site	1856402	5720802
	TKEN-377-3	т16/34	Bushman's camp	1857145	5770033
Tokoroa East North	TKEN-374-1	т16/35	Kainga	1855361	5770078
1401411	TKEN-377-3	T16/46	Burial cave. Remains of coffins.	1857245	5769833
Whakamaru	WKMU- 355-1	т16/41	Bushman's camp (for 'planters')	1845362	5750607



Appendix 4: Oji's Forest Neighbours

Not Publicly Available



Appendix 5: Significant Natural Areas by District Council

South Waikato District Council¹³

Forest	Stand/s	Area of SNA (ha)	SNA Reference
Ātiamuri	ATMI-323-02	9.0	BF35UP412
Duncan	DNCN-55-1	14.3	BF35UP273
Granite	GRNT-330-06	8.3	BF35UP412
	KINL-18-02	1.0	BF35UP321
	KINL-21-01	5.5 0.3	BF35UP320 BF35UP321
	KINL-21-02	2.1	BF35UP320
Kinleith	KINL-21-03	2.4 5.1	BF35UP318 BF35UP320
	KINL-27-01	30.4	BF35UP320
	KINL-165-01	3.3	BF35UP318
	KINL-308-02	4.6	BF35UP318
	KINL-SCRB-01	15.2	BF35UP320
	MRTI-303-01	2.5	BF35UP320
Maraetai	MRTI-365-12	4.6	BF35UP310
Pinedale – Oji	PNCH-30-01	8.7 16.3	BE35UP136 BE35UP422
	PNCH-RIPR-01	0.6	BE35UP422
	TARH-01-01	0.7	BF36UP415
	TARH-01-02	0.3	BF36UP415
	TARH-01-04	2.4	BF36UP332
T 1120	TARH-01-05	4.8 3.5	BF36UP330 BF36UP332
Tar Hill	TARH-01-06	0.5	BF36UP341
	TARH-01-07	2.0	BF36UP331
	TARH-01-09	0.2	BF36UP332
	TARH-01-10	1.6 1.5	BF36UP331 BF36UP341

¹³ South Waikato District Council. Operative District Plan April 2021. https://plans.southwaikato.govt.nz/public/district-plan/. See Appendix E



			DECOLUDADA
	TARH-01-11	0.9	BF36UP331
	TARH-01-12	0.3	BF36UP332
	TARH-01-13	0.4	BF36UP332
	TARH-01-14	3.9	BF36UP331
		0.2	BF36UP332
	TARH-01-15	13.7 7.6	BF36UP330 BF36UP332
	TARH-UI-IS	15.7	BF36UP415
		18.6	BF36UP331
	TARH-01-16	27.2	BF36UP332
		3.8	BF36UP341
	TARH-SCRB-01	1.6	BF36UP415
	TARH-SCRB-02	1.2	BF36UP332
	TARH-RIPR-01	0.6	BF36UP332
	TAKIT KII K OI	1.1	BF36UP415
	TARH-RIPR-02	1.6	BF36UP330
	TARH-RIPR-03	3.1	BF36UP332
	TARH-RIPR-06	2.3	BF36UP331
		3.0	BF36UP332
	TARH-SECF-01	1.6	BF36UP332
	TARH-PRIF-01	3.1	BF36UP415
	TNBB-346-01	6.9	BF36UP355
Taranui Baboon	TNBB-SCRB-01	0.5	BF36UP355
	TNBB-SCRB-02	0.4	BF36UP355
	TRNG-372-04	1.1	BE36UP223
Te Ranga	TRNG-373-02	11.1	BE36UP223
	TKEN-374-01	1.4	BE36UP237
	TKEN-377-01	19.6	BE36UP238
Tokoroa East North		2.1	BE36UP238
	TKEN-377-02	3.7	BE36UP240
		42.5	BE36UP242
	WKMU-355-01	8.0	BF35UP379
	WKMU-355-27	10.0	BF35UP318
M/h allama arri	WKMU-355-28	13.1	BF35UP379
Whakamaru	WKMU-BRDI-02	4.3	BF35UP379
	WKMU-BRDI-03	4.1	BF35UP379
	WKMU-BRDI-04	0.1	BF35UP379



Taupo District Council¹⁴

Forest	Stand/s	Area of SNA SNA Reference (ha)	
	OAKS-PRFI-01	30.6	SNA 193 Ivan Swan Covenant
	OAKS-SECF-01	2.2	SNA 193 Ivan Swan Covenant
Seven Oaks	OAKS-SECF-02	3.0	SNA 193 Ivan Swan Covenant
	OAKS-SECF-03	10.1	SNA 193 Ivan Swan Covenant
	Adjacent to north-western forest boundary	N/A	SNA 015 Marotiritiri Wetland
	WAHA-01-04	1.5	SNA 271 Hingarae Scenic Reserve
Waihora	Adjacent to southern and western forest boundaries	N/A	SNA 271
	Adjacent to southern and western forest boundaries	N/A	SNA 272 Kotukutuku Stream Scenic Reserve

Waitomo District Council¹⁵

Forest	Stand/s	Area of SNA SNA Reference	
	STON-01-11	3.9	S17UP091.02 S17UP091.03
	STON-PRIF-01	0.5	S17156
	STON-PRIF-02	3.1	S17UP091.02
Stanoloimh	STON-PRIF-03	0.5	S17UP091.02
Stoneleigh	STON-SECF-01	0.3	S17UP091.03
	STON-SECF-02	0.3	S17UP091.02
	STON-SECF-04	1.4	S17UP091.02
	STON-LEPT-01	0.1	S17156
	0.	0.5	S17UP091.02

 $^{^{14}\,} Taupo\,\, District\,\, Council.\,\, Taupo\,\, District\,\, Plan.\,\, \underline{https://taupo.isoplan.co.nz/eplan/rules/0/13/0/6999/0/100}\,\, See\,\, Schedule\,\, 7.8.$

 $^{^{15}\} Waitomo\ District\ Council.\ Operative\ District\ Plan\ \underline{https://www.waitomo.govt.nz/council/publications/district-plan/}.$



Whakatane District Council¹⁶

Forest	Stand/s	Area (ha)	of	SNA	SNA Reference
	BOOK-01-01	0.13			BS8 A
	BOOK-01-03	0.00			BS8 A
	BOOK-01-04	0.20			BS8 A
	BOOK-LGRA-01	0.88			BS8 A
	BOOK-RIPR-01	1.08			BS8 A
Bookers	BOOK-RIPR-02	5.54			BS8 A
	BOOK-WETL-01	8.30			BS8 A
	BOOK-WETL-02	1.15			BS8 A
	BOOK-WETL-03	0.77			BS8 A
	BOOK-WETL-04	0.83			BS8 A
	BOOK-WETL-05	0.50			BS8 A
	PICK-01-01	0.00			BS29 B
Pickford	PICK-PRIF-04	0.00			BS29 B
FICKIOIU	PICK-SCRB-02	0.00			BS29 B
	Unstocked Gap	0.00			BS29 B
	RUST-01-03	0.02			BS93 A
	RUST-PRIF-01	7.03			BS93 A
Rust	RUST-PRIF-02	5.91			BS93 A
Rust	RUST-PRIF-03	2.36			BS93 A
	RUST-SECF-01	0.45			BS93 A
	Unstocked Gap	0.00			BS93 A

¹⁶ Whakatane District Council. Operative District Plan. See Schedules A and B. https://www.whakatane.govt.nz/sites/www.whakatane.govt.nz/files/documents/documents-section/council-plans/operative-district-plan/Operative%20District%20Plan%20-%20web.pdf



Appendix 6: HCVF Management Plans

Bookers Forest, HCVF Area #1

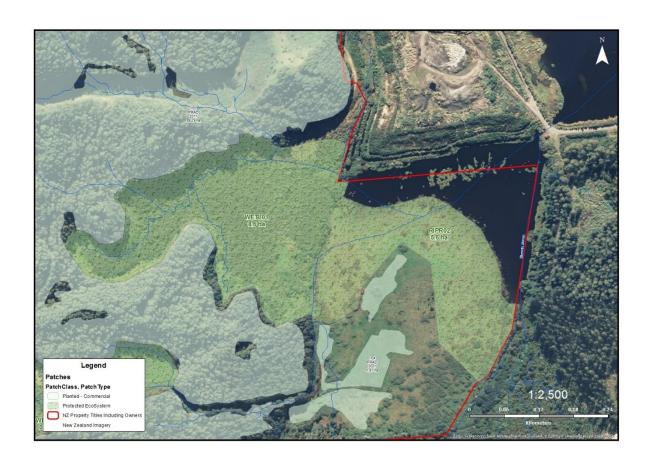
Stands WETL-01 and RIPR-02

Location WETL-01, 8.6 hectares

RIPR-02, 5.6 hectares

South-eastern corner of forest near Hiawatia Stream, close to Lake

Rotoroa.



HCVF class HCV3 - Forest areas that are in or contain rare, threatened or

endangered ecosystems



Species composition

WETL-01: Grey willow / Machaerina rubginosa-mānuka-raupō-blackberry-swamp millet sedge-shrubland

This vegetation type covers the majority of Bookers Wetland. Grey willow forms a discontinuous canopy 3-4 metres tall over a predominantly indigenous shrub tier. Frequent mānuka (c.2 metres tall) and scattered shrubs of karamū, Coprosma *cunninghamii, and Coprosma tenuicaulis (all under c.2 metres tall) occur in the shrub tier alongside occasional harakeke, tī kōuka, whekī, Coprosma propinqua var. propinqua, and local pōhuehue. Machaerina rubginosa, kāpūngāwhā (Schoenoplectus tabernaemontani), Carex spp. Mātātā and swamp kiokio are common species within the tall ground layer. Swamp millet (Isachne globosa) is locally abundant within small, open areas scattered throughout this vegetation and habitat type, where it forms dense swards in association with Yorkshire fog and occasional lotus.

RIPR-02: Wīwī-soft rush-paspalum rushland

Wīwī (*Juncus edgariae*) and soft rush occur with exotic grassland species including paspalum (*Paspalum dilatatum*), Yorkshire fog, creeping buttercup and narrow-leaved plantain (*Plantago lanceolata*). Occasional grey willow (less than c.2 metres tall) are also present.

Work Program

Timing	Activity type	Actions
Annual	Walk-through check / drone survey	 Forest manager to do annual onsite check. This can be done via a combination of a walk-through check on the ground and use of a drone to carry out an aerial assessment of the block. Note any issues including weeds, wilding pines, animal browse.
Annual	Photopoint monitoring	 Establish photopoint vegetation monitoring of both sites. Repeat photos annually.
Ongoing	Pest control - Animals	 Formalise a pest control plan - possibly using an external contractor. May include shooting, trapping and/or poisoning (with initial and ongoing Residual Trap Catch for possum density).
Ongoing	Pest Control - Plants	Carry out any pest plant control based on annual walk-through check / drone survey information and the Regional Pest Management Plan.



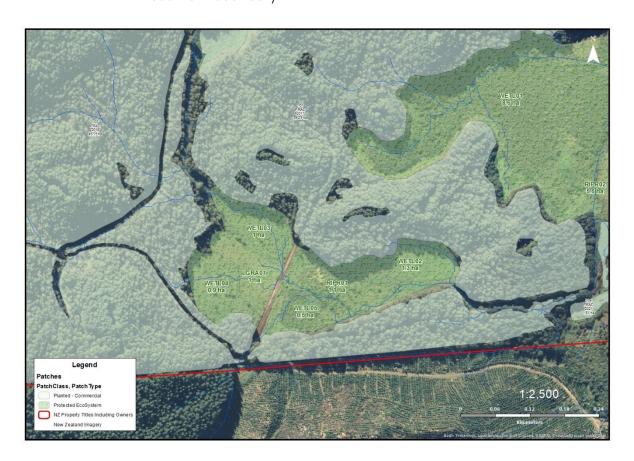
Bookers Forest, HCVF Area #2

Stands WETL-02, WETL-03, WETL-04, WETL-05, LGRA-01 and RIPR-01

Location WETL-02, 1.3 hectares

WETL-03, 1.0 hectares WETL-04, 0.9 hectares WETL-05, 0.5 hectares LGRA-01, 1.0 hectares RIPR-01, 1.1 hectares

South-eastern corner of forest near Hiawatia Stream, almost on forest's southern boundary.



HCVF class

HCV3 - Forest areas that are in or contain rare, threatened or endangered ecosystems



Species composition

WETL-02 & WETL-03: Carex spp. sedgeland

Dense Carex spp., such as pūrei (*Carex secta*) and *Carex virgata*, occur with swamp millet and Yorkshire fog. Scattered swamp kiokio (*Blechnum minus*), *Coprosma tenuicaulis*, and several grey willow (c.3 metres tall) are present. Kāpūngāwhā is present occasionally. Along the wetland margin of this vegetation and habitat type, blackberry and creeping buttercup (*Ranunculus repens*) are common.

WETL-04 & WETL-05: Grey willow/*Machaerina rubginosa*-mānuka-raupō-blackberry-swamp millet sedge-shrubland

This vegetation type covers the majority of Bookers Wetland. Grey willow forms a discontinuous canopy 3-4 metres tall over a predominantly indigenous shrub tier. Frequent mānuka (c.2 metres tall) and scattered shrubs of karamū, Coprosma *cunninghamii, and Coprosma tenuicaulis (all under c.2 metres tall) occur in the shrub tier alongside occasional harakeke, tī kōuka, whekī, Coprosma propinqua var. propinqua, and local pōhuehue. Machaerina rubginosa, kāpūngāwhā (Schoenoplectus tabernaemontani), Carex spp. Mātātā and swamp kiokio are common species within the tall ground layer. Swamp millet (Isachne globosa) is locally abundant within small, open areas scattered throughout this vegetation and habitat type, where it forms dense swards in association with Yorkshire fog and occasional lotus.

LGRA-01: Swamp millet grassland

Present in Bookers Wetland, swamp millet forms a dense cover with occasional interspersed Yorkshire fog. Local kāpūngāwhā, *Carex* sp., swamp kiokio, and mānuka are also present. Spanish heath is common on the margins, in addition to occasional pampas and patches of blackberry.

RIPR-01: (Grey willow)/raupō reedland

Occasional grey willow (c.3 metres tall) is emergent over abundant raupō, interspersed with occasional swamp kiokio and buddleia (in drier areas). Mānuka (up to c.3 metres tall) and *Coprosma tenuicaulis* are present on the margins of this vegetation type.



Work Program

WorkTrogic		
Timing	Activity type	Actions
Annual	Walk-through check / drone survey	 Forest manager to do annual onsite check. This can be done via a combination of a walk-through check on the ground and use of a drone to carry out an aerial assessment of the block. Note any issues including weeds, wilding pines, animal browse.
Annual	Photopoint monitoring	Establish photopoint vegetation monitoring of both sites.Repeat photos annually.
Ongoing	Pest control - Animals	 Formalise a pest control plan - possibly using an external contractor. May include shooting, trapping and/or poisoning (with initial and ongoing Residual Trap Catch for possum density).
Ongoing	Pest Control - Plants	Carry out any pest plant control based on annual walk-through check / drone survey information and the Regional Pest Management Plan.



Appendix 7: Schedule of Ecological Management

All Oji forests

Activity Type	Actions	Area/s	Due Date
Walk-through check / drone survey	 Forest manager to do annual onsite check to note any issues including weeds, wilding pines, animal browse. This can be done via a combination of a walk-through check on the ground and use of a drone to carry out an aerial assessment of the block. 	All indigenous areas within forests	31-Dec (annually)
Pest control - Animals	 Formalise a pest control plan - possibly using an external contractor. May include shooting, trapping and/or poisoning (with initial and ongoing Residual Trap Catch for possum density). 	All indigenous areas within forests	31-Dec (annually)
Pest Control - Plants	Carry out any pest plant control based on annual walk-through check / drone survey information and the Regional Pest Management Plan.	All indigenous areas within forests	31-Dec (annually)
Bat surveys	 Carry out targeted pre-harvest surveys for long-tailed bats Ideally, carried out in warmer months to avoid hibernation 		

Select forests

Activity Type	Actions	Forest/s	Due Date
Ecological Offset – Ātiamuri ED	 Annual donation to ecological restoration project within ED Need receipt as proof of offset 	Ātiamuri, Granite, Kinleith, Murphy, Tar Hill, Tatua & Whakamaru Total offset area = 116.3ha	31-Dec (annually)



Activity Type	Actions	Forest/s	Due Date
Ecological Offset –	 Annual donation to ecological restoration project within ED Need receipt as proof of offset 	Davies	31-Dec
Rotorua ED		Total offset area = 8.4 ha	(annually)
Ecological Offset –	 Annual donation to ecological restoration project within ED Need receipt as proof of offset 	Seven Oaks, Waihora & Waipapa 9	31-Dec
Taupo ED		Total offset area = 47.1 ha	(annually)
Ecological Offset – Tokoroa ED	 Annual donation to ecological restoration project within ED Need receipt as proof of offset 	Duncan, Kinleith, Maraetai, Pinedale – Oji, Seal, Te Ranga, Tokoroa East North & Whakamaru Total offset area = 212.1 ha	31-Dec (annually)

HCVF Areas

Activity Type	Actions	Area/s	Due Date
Walk-through check / drone survey	 Forest manager to do annual onsite check to note any issues including weeds, wilding pines, animal browse. This can be done via a combination of a walk-through check on the ground and use of a drone to carry out an aerial assessment of the block. 	Bookers HCVF Areas 1 and 2	31-Dec (annually)
Pest control - Animals	 Formalise a pest control plan - possibly using an external contractor. May include shooting, trapping and/or poisoning (with initial and ongoing Residual Trap Catch for possum density). 	Bookers HCVF Areas 1 and 2	31-Dec (annually)
Pest Control - Plants	Carry out any pest plant control based on annual walk-through check / drone survey information and the Regional Pest Management Plan.	Bookers HCVF Areas 1 and 2	31-Dec (annually)