



AGENDA / PANUI

NGĀ POUTIRIAO Ō MAUAO (Mauao Joint Administration Board) MEETING

Tuesday, 2 October 2018
Commencing at 9:30 am

Tauranga City Council
Kaimai Room, 91 Willow Street (access off the Library Arcade),
Tauranga

Please note that this meeting will be audio recorded. The recording will be publicly available on Tauranga City Council's website: www.tauranga.govt.nz.

NOTICE OF MEETING

I hereby give notice that a meeting of Council will be held in the Kaimai Room, 91 Willow Street (access off the Library Arcade), Tauranga (access off the Library Arcade), Tauranga to consider the business as set out herein.

M Grenfell
Chief Executive

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- 1. Karakia**
- 2. Presentation by s 7(2)(f)(ii) Operations Manager Rotorua/
Tauranga**
- 3. Apologies**
- 4. Lead Officer's Report**
- 5. Acceptance of Late Items**
- 6. Confirmation of Minutes / Matters Arising**



MINUTES

Ngā Poutiriao o Mauao

Mauao Joint Administration Board

Meeting No. 23

Tuesday, 7 August 2018

Tauranga City Council Kaimai Room

OPEN SECTION

Members Present: s 7(2)(a) - Privacy (Chairperson)

s 7(2)(f)(ii)

Cr Steve Morris

s 7(2)(a) - Privacy (Waitaha a Hei)

s 7(2)(a) - Privacy (Ngai Te Rangi)

Also Present: s 7(2)(a) - Privacy (Mauao Trustee)

s 7(2)(a) - Privacy (NZ Historic Places Trust)

s 7(2)(a) - Privacy Bay of Plenty Hang Gliding Association

Presenters as noted in the minutes.

Apologies: Cr Morris (lateness)

In Attendance:

s 7(2)(f)(ii)

1. **Karakia**

s 7(2)(a) - Privacy opened the meeting with a karakia and acknowledged the passing of who was lying in state at Hairini Marae.

2. **Apologies**

Moved: s 7(2)(f)(ii) Seconded: s 7(2)(f)(ii)

That it be Resolved

That the Ngā Poutiriao o Mauao – Joint Administration Board:

Receives apologies from Cr Morris for lateness.

Carried

3. **Lead Officer's report**

s 7(2)(f)(ii) provided a brief update of recent activities. s 7(2)(f)(ii) advised that the rock climbers' report was still in progress and would be presented at a subsequent meeting; and clarified that the Mauao rock climbs were not yet officially open but had been used for specific purposes such as AIMS Games promotion.

4. **Late items**

s 7(2)(a) - Privacy advised of an approach made to the Mauao Trust regarding replanting karaka trees; and was advised that this had been incorporated into the Implementation Plan.

5. **Confirmation of minutes and matters arising**

Moved: s 7(2)(a) - Privacy Seconded: s 7(2)(f)(ii)

That it be Resolved

That the Ngā Poutiriao o Mauao – Joint Administration Board:

(a) Confirms the previous minutes dated 5 June 2018 – Meeting No.22 as a true and correct record, with the following amendments:

(i) Pg. 6, Item 14: change s 7(2)(a) - Privacy

Carried

Matters arising:

- Item 10 – clarification sought whether a special project had to be registered; advised that staff would work with any project suggested to incorporate into the Implementation Plan where possible.
- Possible sponsorship funds from Zespri/Ballance/ Port of Tauranga – advised that Zespri wanted to meet with the Chair to discuss further investment; and that recognition of the Port's \$30,000 donation was a separate topic on the meeting agenda.
- Item 11 – clarified that any closure of the Maunga was a governance decision and that the public did not have a decision-making voice but a consultative role.

Attendance

9.51 a.m. s 7(2)(a) - Privacy joined the meeting.

Business**6. Report - Ngā Poutiriao ō Mauao (Joint Administration Board) – Hang-gliding and paragliding rules and Arataki Tours donations**

§ 7(2)(f)(ii) Reserves spoke to this report and outlined its three main parts – hang-gliding and paragliding; four wheel drive vehicles and cultural trails. § 7(2)(f)(ii) noted that § 7(2)(a) - Privacy from the Hang-gliding Club was present to answer questions.

Points Raised by Members

- Acknowledged the clear and well-structured report.
- Concern raised regarding possible safety issues with club vehicle use of the track and pedestrians; § 7(2)(a) - F advised that generally the hang-gliders passed about 10-12 people walking up.
- Observed that there was more risk if vehicle use was close to peak pedestrian usage. It was suggested that appropriate conditions on hang-glider vehicle use could be imposed such as a restriction on multiple trips or trips being limited to before and after specified times. § 7(2)(a) - noted that it was hard to judge conditions for hang-gliding until at the top of the Maunga; and that it was difficult to assess suitability of conditions early in the morning for flights later in the day – this could lead to gear being taken up the Maunga and left for no purpose which would necessitate another trip for retrieval.
- Extra signage on the vehicle track access could be provided to alert pedestrians to higher vehicle use in the afternoons. The possibility of a flag system to indicate the presence of a vehicle on the track and the use of a light warning system as at Mt Te Aroha were discussed.

In Response to Questions

- Clarification provided regarding the busiest times of day for track usage (referred to Mauao Operational Report Appendix A – August 2018 Track Counter Report). Peak usage was at 9.30-10.00 a.m. and again about 4.00 p.m. Staff noted that about 30 people were generally walking up and back at about 2.00 p.m. on a summer afternoon.
- § 7(2)(a) - P advised that peak hang-glider usage was mid-afternoon, from about 2.00 p.m., when the breeze picked up. The club intended to keep its vehicle on the Mount for the shortest time possible and was proposing to drop-off gear, drive straight back down and then walk up to rig and fly. The vehicle travelled very slowly (less than 10 km/hr) with several sets of eyes in the vehicle; there had been no incidents to date. He driver was qualified and had received induction training for the track.
- No written or formal complaints received regarding vehicle use on the track.
- Clarified that income from the Arataki Cultural Tours app and donations could be ring-fenced and used for projects in addition to existing budgets.

Action:

- Investigate implementation of flag warning system for vehicle use of the Maunga track.
- Ensure annual driver training is undertaken by drivers on the Maunga.

Action By:

§ 7(2)(f)(ii)

Moved: § 7(2)(f)(ii) Seconded: § 7(2)(a) - Privacy

That it be Resolved

That the Ngā Poutiriao o Mauao – Joint Administration Board:

- (a) ***Agrees to the Bay of Plenty Hang Gliders and Paragliders Club (BOPHGPC) proposed rules and guidelines for the use of hang gliders and paragliders on Mauao, as detailed at Appendix A of this report.***
- (b) ***Approves vehicle access to the summit for the transportation of hang gliders until August 2019, subject to the conditions included at Appendix B of this report.***
- (c) ***Agrees to utilise the donation/koha tool within Arataki Cultural Tours App, and that the funds received will be held by Tauranga City Council as the reserve administering body, and used to fund projects on Mauao as approved by this Board; in addition to existing budgets.***
- (d) ***Agrees to utilise any donations and external funding received to fund specific projects on Mauao, as identified in the Mauao Implementation Plan and as approved by this Board.***

Carried

s 7(2)(a) - Privacy noted his concern around hang-glider vehicle access during a period of heavy foot traffic; and the possible risk posed to pedestrians.

7. Ngā Poutiriao o Mauao operational report - August 2018

s 7(2)(f)(ii) presented this report and responded to questions.

Key Points

- No signs of myrtle rust; spring would be the risk time.

Points Raised by Members

- Ngai Te Rangi representatives had been onsite with Board and Trust members to learn and discuss how to collect seed. The Trust was considering developing a bi-annual iwi project with tamariki to collect seed, to ensure seed specific to the Maunga was available and protected.
- Noted great turn-out for planting day.
- Noted decrease in number of animals on the Maunga e.g. rabbit population

In Response to Questions

- Pohutakawa, manuka and kanuka were the possible myrtle rust affected species on the Maunga, with pohutakawa most at risk.

Moved: s 7(2)(a) - Privacy **Seconded: Cr Morris**

That it be Resolved

That Ngā Poutiriao o Mauao – Joint Administration Board:

- (a) ***Receives the operational report for August 2018***

Carried

8. Report - Mauao Annual Report 2017/18

s 7(2)(f)(ii)

presented the report and responded to questions.

Key Points

- The draft report would be finalised and presented to Council and to the Mauao Trust. First annual report.
- Noted that it was an annual monitoring and achievements report not a financial annual report.

Points Raised by Members

- The report was a celebration of the year's work; when present to Council invite Trust members as well.
- The relevance of including events occurring on Mount Main Beach was queried; the events that occurred on Mauao itself or on the base track were the important ones.
- Important for people to understand the amount of activity that happened on or around the Mount.
- Noted indication of total fire ban being imposed by the NZ Fire Service.

In Response to Questions

- Rabbit population figures indicated no need for predator-free fence option; current control measures were effective.
- Staff requested to add the signing of the Memorandum of Understanding to the table of Board activities in the Report.

Action:

- Make suggested amendments to the draft Annual Plan

Action By:

s 7(2)(f)(ii)

Moved: s 7(2)(f)(ii) **Seconded:** s 7(2)(a) - Privacy**That it be Resolved*****That Ngā Poutiriao o Mauao – Joint Administration Board:***

- (a) Approves the Mauao Operations Group to prepare an annual report to be presented to Council, using the information contained in this report.**

Carried**9. Report - Mauao annual funding and service contract expiry dates 2018/19**

s 7(2)(f)(ii)

presented the report and responded to questions.

Points Raised by Members

- Clarification provided regarding weed management and revegetation costs.

In Response to Questions

- Monitoring – included rock stability monitoring; heritage and archaeological monitoring; and one-off surveys e.g. lizard count.

Moved: s 7(2)(f)(ii) seconded: s 7(2)(f)(ii)

That it be Resolved

That Ngā Poutiriao o Mauao – Joint Administration Board:

- (a) Receives the annual funding and contract expiry dates report for financial year 2018/19.***

Carried

10. Report - Mauao Implementation Plan

s 7(2)(f)(ii) Mauao presented the report and provided copies of the Mauao Implementation Plan (MIP). s 7(2)(f)(ii) noted that the MIP was a 10-year plan for the Board's work and thanked the Implementation Working Party for their contribution.

Key Points

- Broken into three terms, of 3, 3, and 4 years respectively.
- The first term projects were most important to set the work in progress.

Points Raised by Members

- Congratulations to s 7(2)(a) - Pr for her hard work; the MIP was a great piece of work.
- Structure – each section starts with a principle taken from the MOU.
- Could now take this document out to external funders.

In Response to Questions

- Future Annual Plans will relate to the Implementation Plan.

Moved: s 7(2)(f)(ii) Seconded: s 7(2)(f)(ii)

That it be Resolved

That Ngā Poutiriao o Mauao – Joint Administration Board:

- (a) Approves the Mauao Implementation Plan included at Appendix A.***

Carried

11. Opportunities to engage with external funders - verbal update from s 7(2)(f)(ii)

Key Points

- Use Implementation Plan as a starting point.
- Align discussions already had with potential funders; develop a sponsorship framework.
- Need to have a clear regimented approach to proactively approach businesses or organisations for funding; manage any possible conflicts of interest.
- Include a Board or Trust member if needed for a formal approach.

12. Redevelopment of public toilets at Waikorire, adjacent to the motor camp - verbal presentation by s 7(2)(f)(ii)

Key Points

- Pilot Bay (Waikorire); and in Mount Main Beach surf life-saving building.

- Waikorire – old building, would be a complete upgrade from ground up. Accessibility was being considered with a hoist being incorporated into the changing facilities. Included more toilets. Any expansion to the existing footprint was being minimised.
- Surf life-saving club – an upgrade to the public toilet facilities; with an increased number of toilets; single entry point; minor expansion to the existing footprint.

Points Raised by Members

- Not yet at stage of conceptual design. Surf life-saving club already had an indicative design; toilet facilities would fit into that design.
- Suggested that the design be special and appropriate to location. More than just fit-for-purpose, something unique.
- The project was outside the Reserve but had asked for it to come to this Board to ensure linkages with Mauao projects and objectives.

In Response to Questions

- Clarified that the toilet blocks would be situated where currently sited.
- Mount Surf Club – renovation was underway. Planned to wait for those facilities to be open again before initiating the Waikorire refurbishment, also avoid the busy summer period. The conceptual designs would be brought to a future Board meeting.

13. Base track remediation - verbal update by s 7(2)(f)(ii)

Key Points

- Resource consent application lodged and being processed; would be fully notified.
- Archaeological Authority application prepared and would be lodged shortly.
- Detailed design largely completed; investigating source and quality of rock; details would come back to the Trust and be used to inform the development tender.
- Registration of interest process for construction; request for tender should be with contractors this month subject to finalisation of detailed design. Intended to provide some flexibility with timing and sequencing.
- Work likely to start after the summer period; four - five month construction periods.
- Was working with the communications department.

Points Raised by Members

- Clarification sought regarding slip activity – no new slips; some coastal erosion through wave action. Design set the track out slightly from the slip face; appropriate slope stabilisation plans were part of the process e.g. planting; remediation pruning.
- Source of rock important – should come from somewhere that had a connection with Mauao.
- Noted possible tapu nature of parts of the track and the old trees as could have been used for funeral processes.

In Response to Questions

- Did not anticipate needing to close the base track for any significant length of time.
- Intended that most materials would come to site via barge not overland.
- A tree sample was being aged to provide an indication of age of trees on the base track.
- Unlikely that Oropi rock would be suitable for use.

14. Risks and opportunities for Mauao - verbal presentation by s 7(2)(f)(ii)

This presentation was not available.

s 7(2)(f)(ii) provided an update on sponsorship received and suggested measures for acknowledgement of donations. Sample signage was circulated for comment and feedback.

Key Points

- A certain level of donation would be required to receive acknowledgement on Mauao signage; guidance would be sought from the Board regarding who should be acknowledged on the information/welcome boards and for how long.
- Sponsors would be prioritised as necessary as funding was received.
- Additional panels would be added to the bottom of existing boards to accommodate sponsors; could be amended annually if necessary.

Points Raised by Members

- Add a "No drones" symbol.
- Change wording on boards to "Kia ora, nau mai, haere mai" instead of "welcome to" Mauao Reserve when signage next upgraded.

15. Discussion of late items

- Karaka trees – could be specified in Implementation Plan, important to restore the karaka grove that used to be on the Maunga.
- Noted that "Restoring the Korowai" listed the restoration of the karaka grove. Need to find an appropriate place for planting; develop a multi-year planting plan in conjunction with archaeological advice.

16. Karakia Whakamutunga

s 7(2)(a) - Privacy closed the meeting with a karakia.

The meeting closed at 11.45 a.m.

7. Declaration of Conflicts of Interest

8. Business

8.1 Update on Implementation Plan - verbal

8.1.1 Fire Ban and Rock Climbing s 7(2)(f)(ii)

8.1.2 Archaeological Research s 7(2)(f)(ii)

8.1.3 Planting and Conservation Plan s 7(2)(f)(ii)

8.1.4 Branding and Implementation Identify Project s 7(2)(f)(ii)

8.1.5 Sponsorship Framework s 7(2)(f)(ii)

8.2 Update on donations through Arataki Cultural Trails App - verbal
s 7(2)(f)(ii)

8.3 Update on nomination for NZ Recreation Association national awards - verbal s 7(2)(f)(ii)

8.4 Update on Base Track Remediation - verbal s 7(2)(f)(ii)

8.5 Ngā Poutiriao ō Mauao - Operational Report October 2018

Ngā Poutiriao ō Mauao - Operational Report October 2018

Ngā Poutiriao ō Mauao (Mauao Joint Administration Board)

2 October 2018

Objective ID No: A9181399



Executive summary

Recommendation	That the Ngā Poutiriao ō Mauao: (a) Receives the operational report for October 2018.
Summary of issue	This report identifies the key operational issues and achievements over the reporting period August 2018 - October 2018. It identifies up and coming work of interest to Ngā Poutiriao ō Mauao, including ongoing visitor records and an up to date events calendar for Mauao, Main Beach and Waikorire (Pilot Bay) Reserves.

Discussion

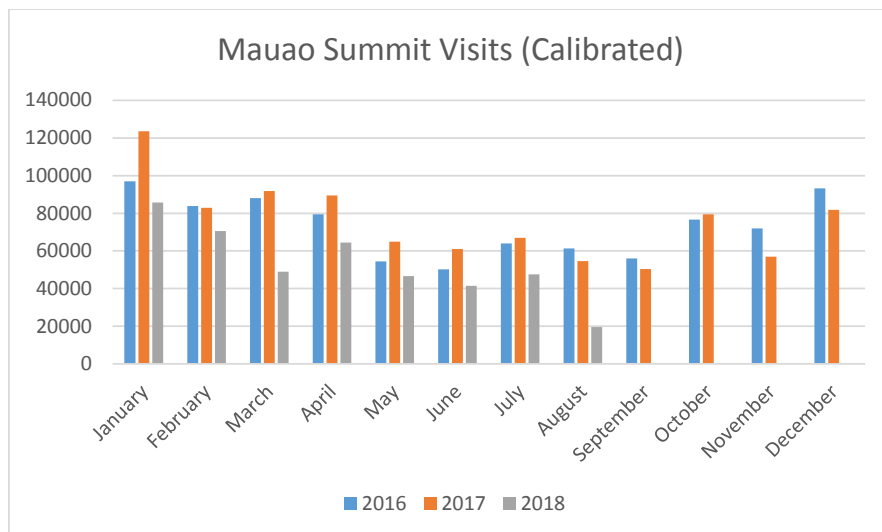
Visitor Numbers

1. Total visitor numbers

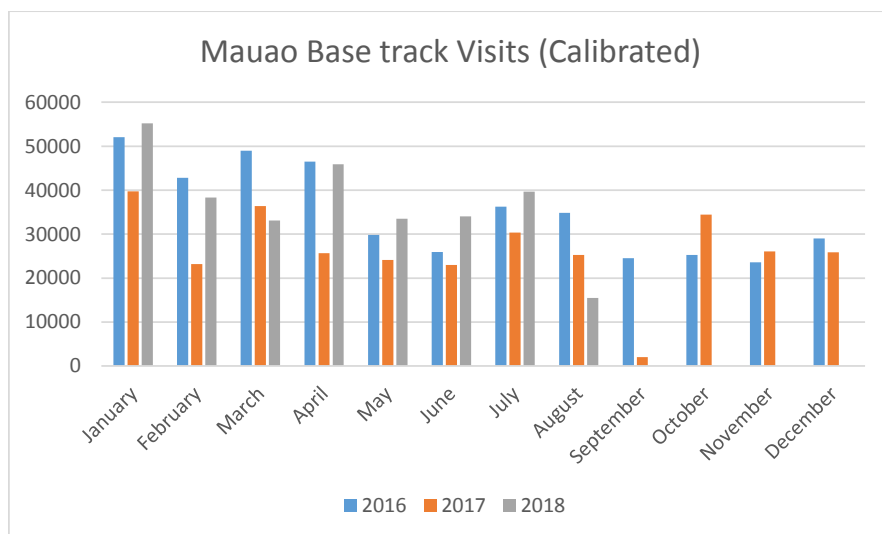
	Summit visits (calibrated)	Base Track visits	Total visits
2016	876,297	419,588	1,295,885
2017	903,604	339,031	1,242,635
2018 (YTD)	425,112	295,137	720,249

2. **Figures 1A and 1B** below show Mauao Summit and Base track visits since the installation of the electronic counter technology. For more detail, see the attached track counter data report in Appendix A.

3. **Figure 1A: Graph showing Mauao Summit visits**

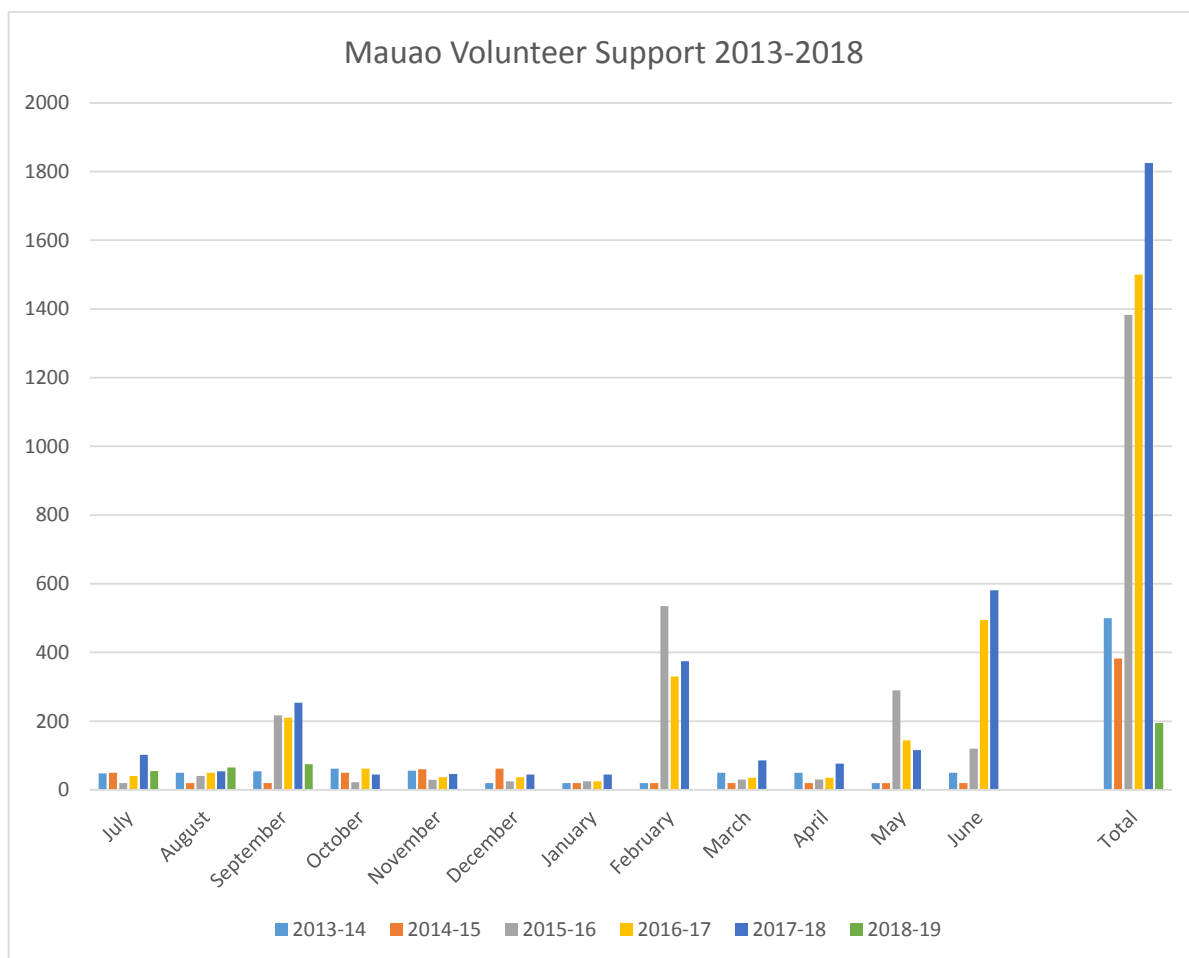


4. **Figure 1B: Graph showing Mauao Base Track visits**



Volunteer support

5. Volunteer hours on Mauao are made up of a number of ongoing support groups and one-off community events. This includes maintenance of animal pest control devices, revegetation planting, and rubbish removal. The peaks in the volunteer hours are generally planting support and coordinated coastal clean ups, and more recently lwi support for myrtle rust surveillance.

6. **Figure 2: Volunteer Support Hours Per Month****Events at and around Mauao for the period of August to December 2018**7. **Figure 3:**

Description	Date
Hawaiian Airlines & Helloworld Mount Maunganui Half Marathon 2018	25/08/18
Tauranga International Marathon 2018	22/09/18
Mitre 10 Mega Tauranga City to Surf Fun Run/Walk 2018	04/11/18
TINMAN - Mt Maunganui 2018	02/12/18
The Santa Run 2018	05/12/18
King and Queen of the Mount 2018	26/12/18

Recent Successes

8. The steps and track between the stone steps and the base track were upgraded this period as part of the asset renewals programme. The replacement steps were raised to improve water management and widened to allow for the high two-way use this sections gets (approximately 1,400,000 passes per year). The improvements will provide an improved level of access and reduce the impact of walkers walking outside the track alignment to safely pass each other.
9. Animal pest control on Mauao continues to be successful. A very low persistence of rabbits has been detected with recent spring control. Low numbers of rodents, and 1 possum were controlled this period.

Objective ID: A9181399

10. Sycamore weed tree removal on the base track and behind the camp was undertaken this period to prepare for future restoration planting works in both locations.
11. Control of weeds targeted weed in the grazing area was undertaken this period.
12. Lambing is underway and temporary signs have been installed at the key entrances to inform visitors to give the sheep some space for the benefit of the lambs.
13. Completion of annual the heritage monitoring report for the ongoing Heritage Authority (see the attached report in Appendix B). The report identifies some actions and some positive results from management activities on the reserve. The monitoring locations identified will be assessed annually to ensure ongoing protection of heritage features.

Planned work for the approaching period

14. A site visit was undertaken this period with s 7(2)(a) - Privacy consultant archaeologist to access potential fencing alternatives for future restoration planting opportunities in restoring the cloak of Mauao and also to identify the scope of further Archaeological research requirements as outlined in the implementation plan
15. A key focus of the spring season will be on animal and plant pest control when this is most effective and avoids the busy summer season.

Myrtle Rust Update

16. Monthly surveillance assessments continue for Myrtle Rust on Mauao with a focus on the Pohutukawa. At this stage, no discoveries or suspected discoveries have been made on Mauao.
17. On the 20th of October there is a Myrtle Rust Surveillance hiko planned for Mauao to show people how to look for the rust. The set up will be located at the Pilot Bay side of Mauao at the base of the four-wheel drive track.

Four Wheel Drive Access

18. Investigation into options for a system to let pedestrians know when there is a vehicle on the road. A location has been identified and staff are looking into the options available for implementation as requested.
19. An annual driver induction is scheduled for the current designated drivers of the Bay of Plenty Hang Gliding and Paragliding Club.

Ongoing Maintenance

20. Ongoing maintenance continues on the following aspects of the reserve:
 - restoration plantings
 - plant and animal pest control
 - stock and pasture management
 - walkway maintenance
 - sign and structure maintenance
 - four wheel drive track maintenance
 - geotechnical rock stability monitoring and scaling to maintain visitor safety.

Appendices

No.	Title
A	Track Counter Report for October 2018 <i>Objective: Id: A9181399</i>
B	Mauao Historic reserve Archaeological Monitoring Report August 2018 <i>Objective Id: A9182973</i>

Objective ID: A9181399

Signatories

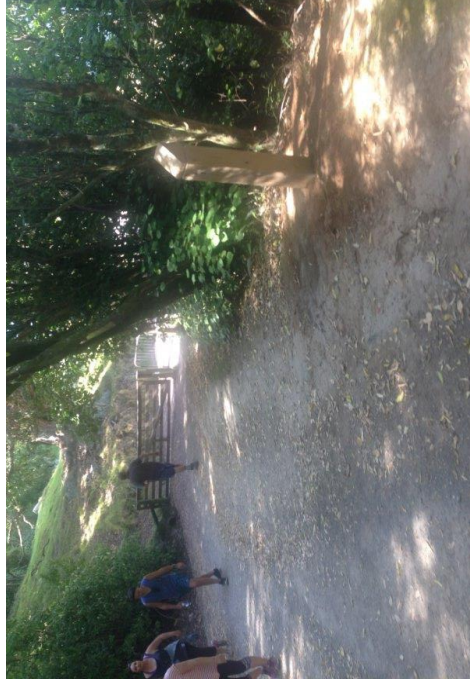
Author	s 7(2)(f)(ii)	
Committee Lead Review		
Authorisers		

Objective ID: A9181399

8.5.1 Appendix A - Track Counter Report for October 2018

Mauao 4wd Track

Period Analysed: Friday 01 January 2016 to Friday 14 September 2018



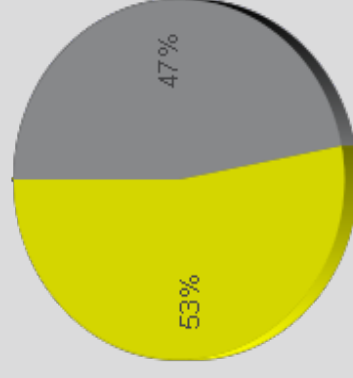
Key Figures

- Total Traffic for the Period Analysed: 657,935
- Daily Average: 667
Weekdays: 608 / Weekend days: 813
- Monthly Average: 20,290
- Busiest Day of the Week: Saturday
- Busiest Days of the Period Analysed:
 1. Tuesday 06 December 2016 (1,856)
 2. Wednesday 04 January 2017 (1,849)
 3. Wednesday 07 December 2016 (1,796)

- Distribution by Direction:

■ IN: 53%

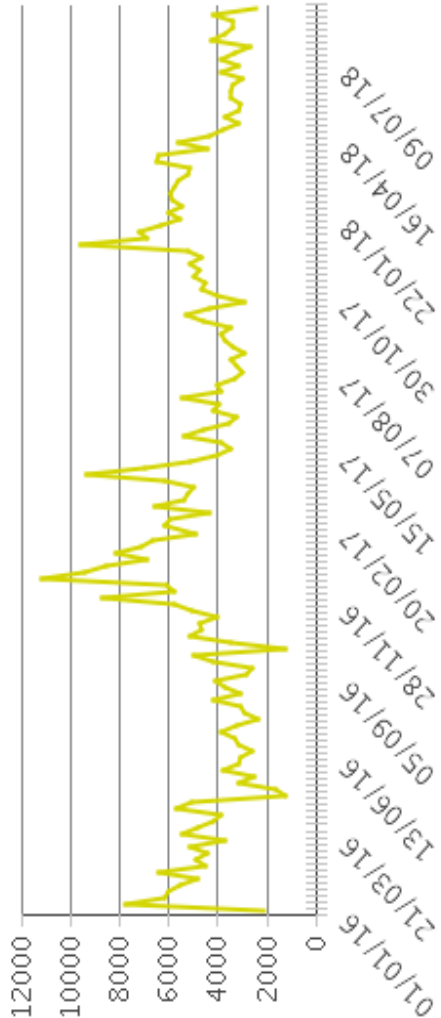
■ OUT: 47%



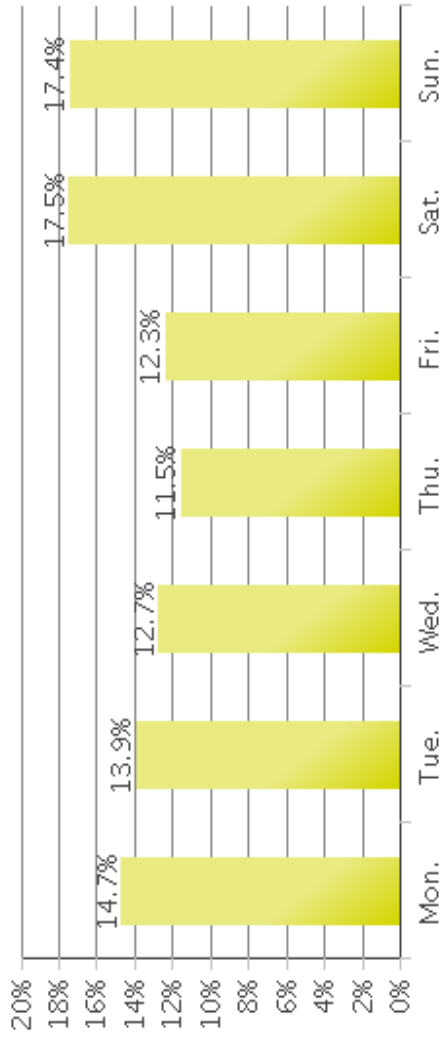
Mauao 4wd Track

Period Analysed: Friday 01 January 2016 to Friday 14 September 2018

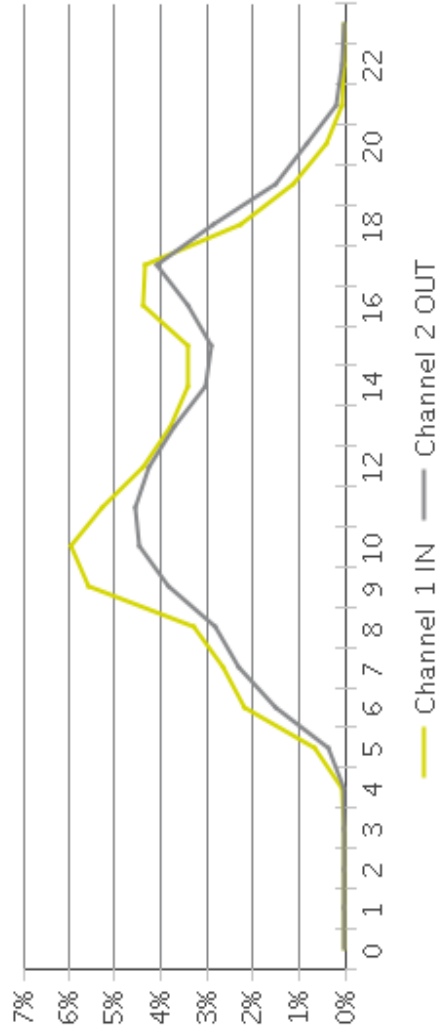
Weekly Traffic



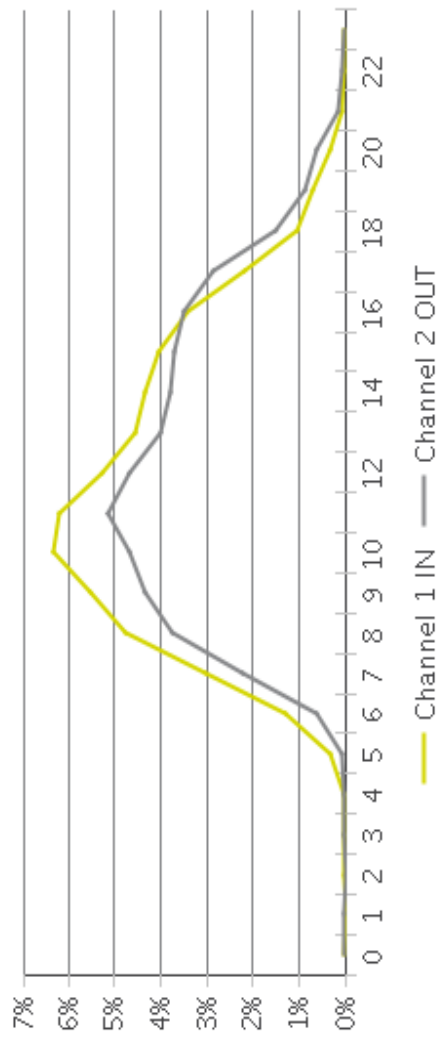
Weekly Profile



Hourly Profile during Weekdays

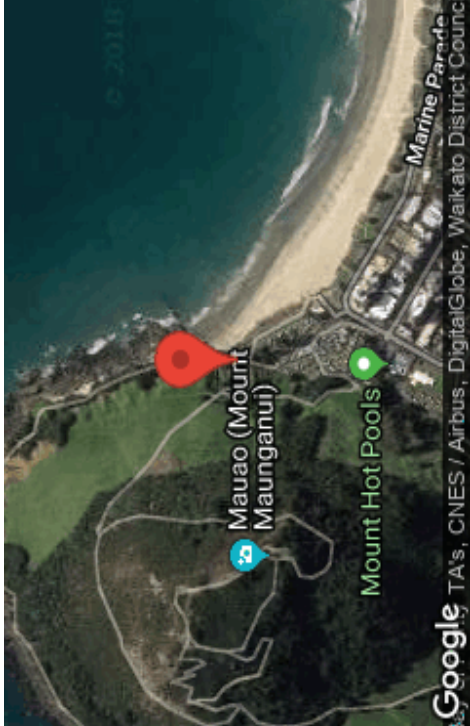


Hourly Profile during the Weekend



Mauao Base Track

Period Analysed: Friday 01 January 2016 to Friday 14 September 2018



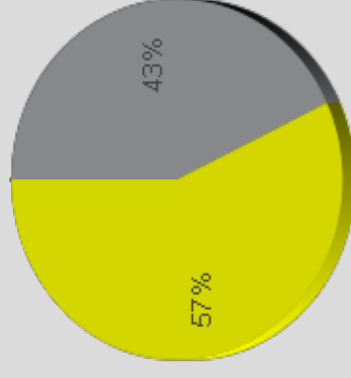
Key Figures

- Total Traffic for the Period Analysed: 1,107,533
- Daily Average: 1,134
Weekdays: 1,000 / Weekend days: 1,470
- Monthly Average: 34,504
- Busiest Day of the Week: Sunday
- Busiest Days of the Period Analysed:
 1. Wednesday 02 March 2016 (4,074)
 2. Saturday 30 December 2017 (3,419)
 3. Monday 04 January 2016 (3,363)

- Distribution by Direction:

■ IN: 57%

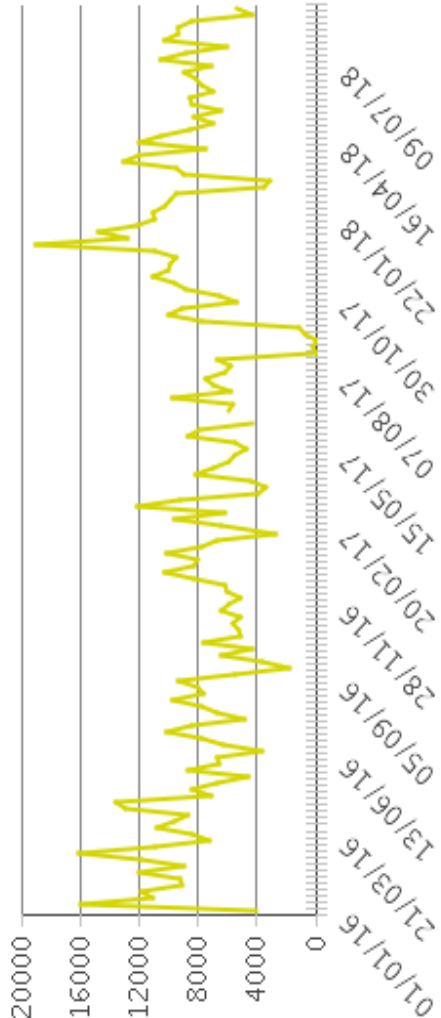
■ OUT: 43%



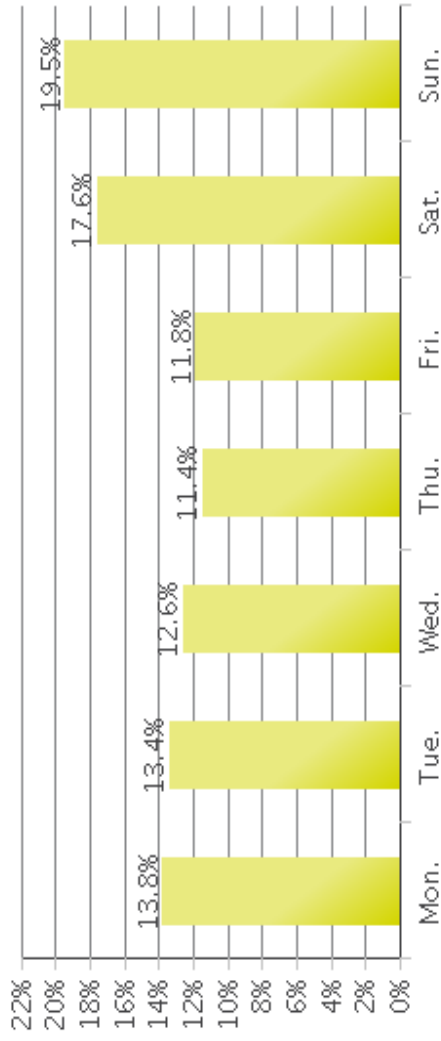
Mauao Base Track

Period Analysed: Friday 01 January 2016 to Friday 14 September 2018

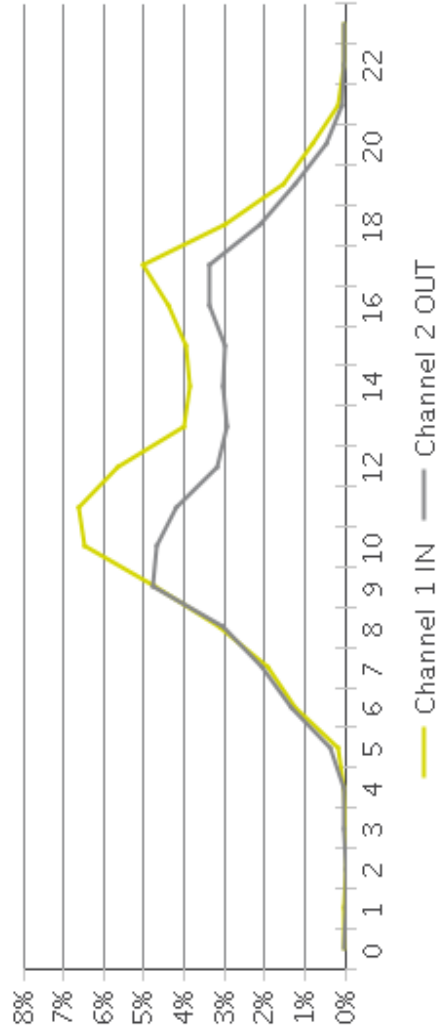
Weekly Traffic



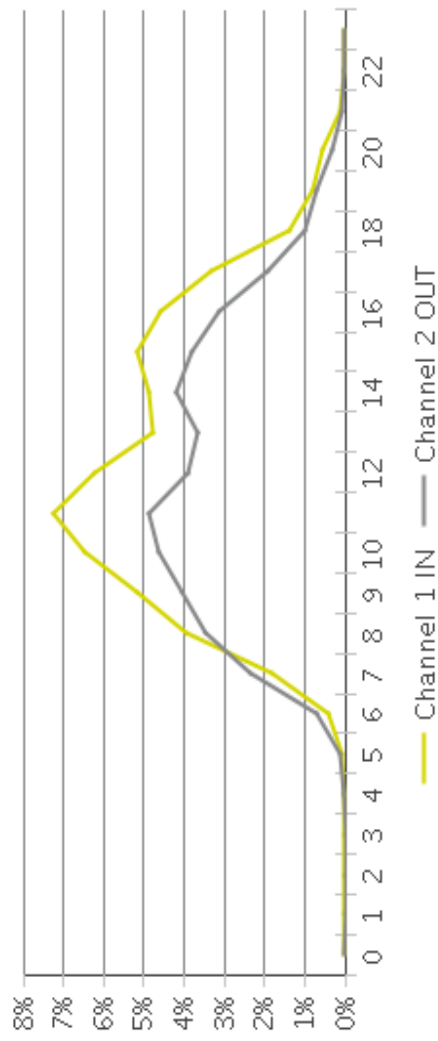
Weekly Profile



Hourly Profile during Weekdays

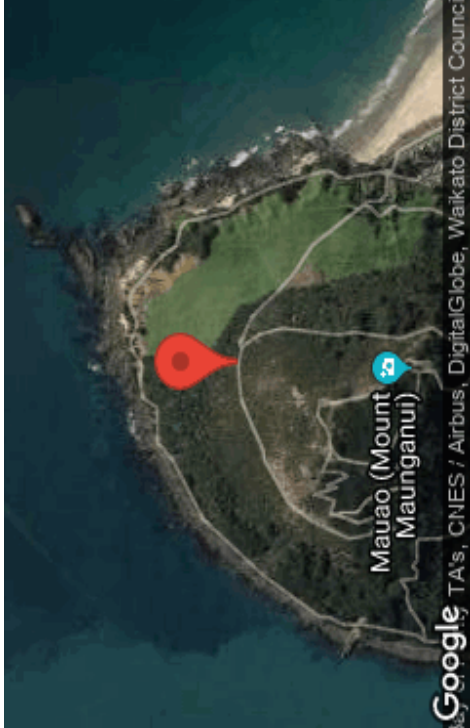


Hourly Profile during the Weekend



Oruahine Track

Period Analysed: Friday 01 January 2016 to Friday 14 September 2018



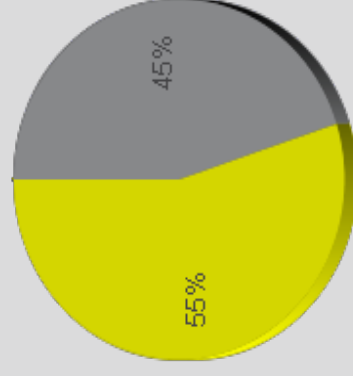
Key Figures

- Total Traffic for the Period Analysed: 891,722
- Daily Average: 904
Weekdays: 809 / Weekend days: 1,141
- Monthly Average: 27,527
- Busiest Day of the Week: Sunday
- Busiest Days of the Period Analysed:
 1. Sunday 17 January 2016 (3,422)
 2. Sunday 11 December 2016 (3,200)
 3. Saturday 16 January 2016 (3,013)

- Distribution by Direction:

■ IN: 55%

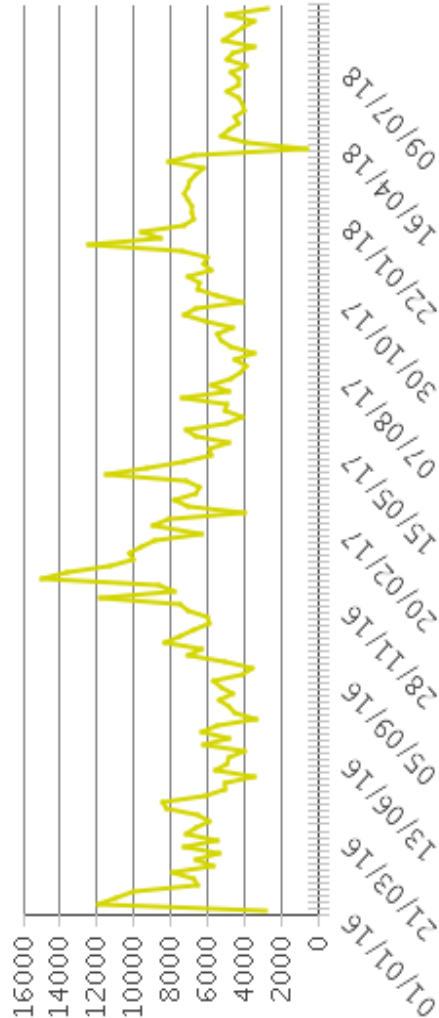
■ OUT: 45%



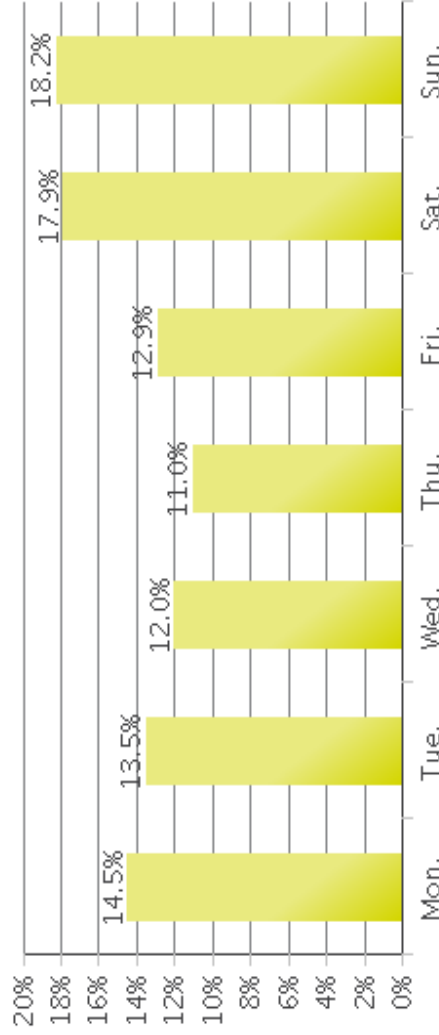
Oruahine Track

Period Analysed: Friday 01 January 2016 to Friday 14 September 2018

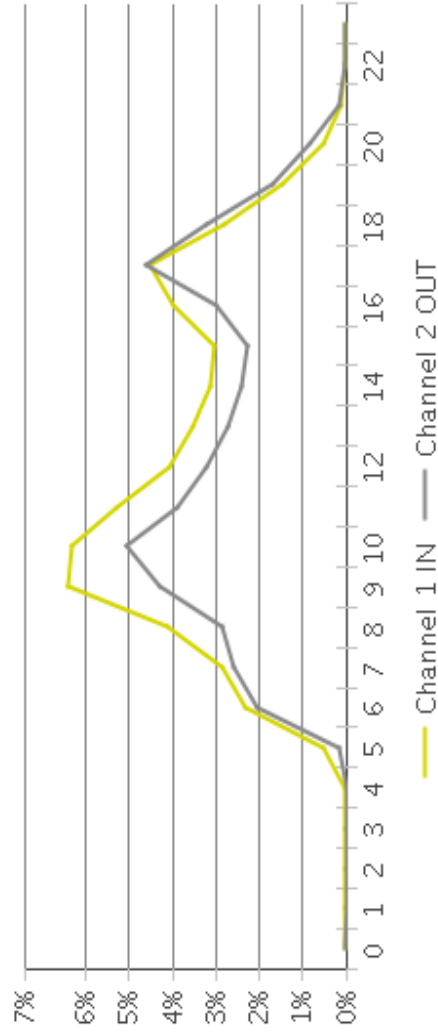
Weekly Traffic



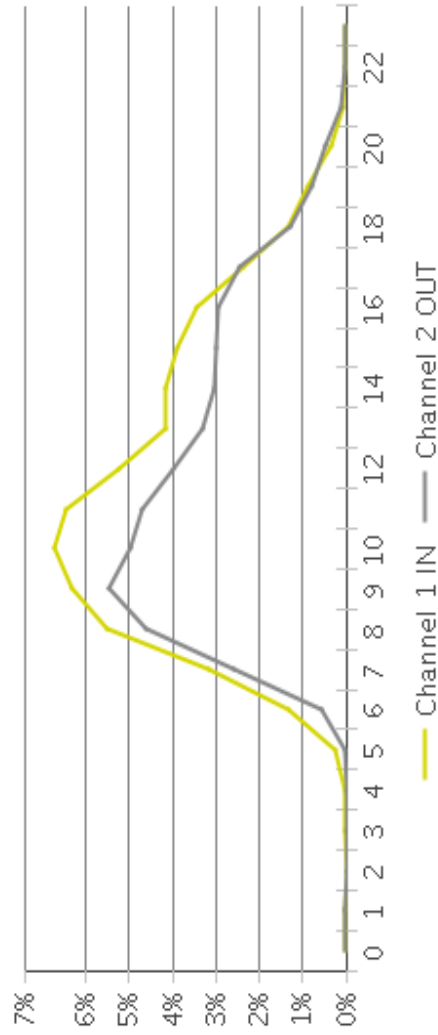
Weekly Profile



Hourly Profile during Weekdays

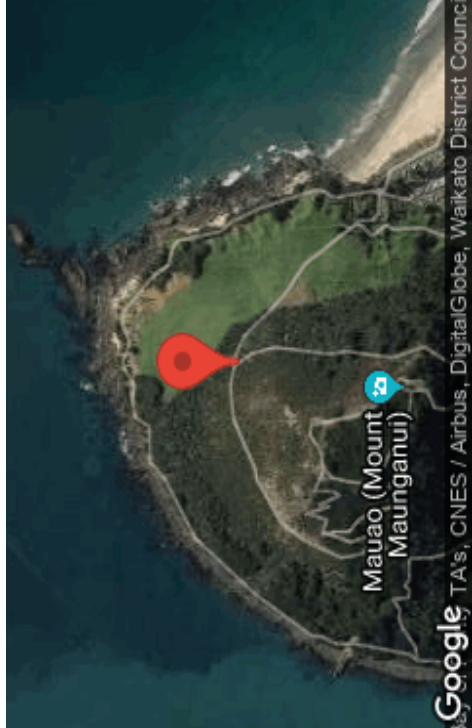


Hourly Profile during the Weekend

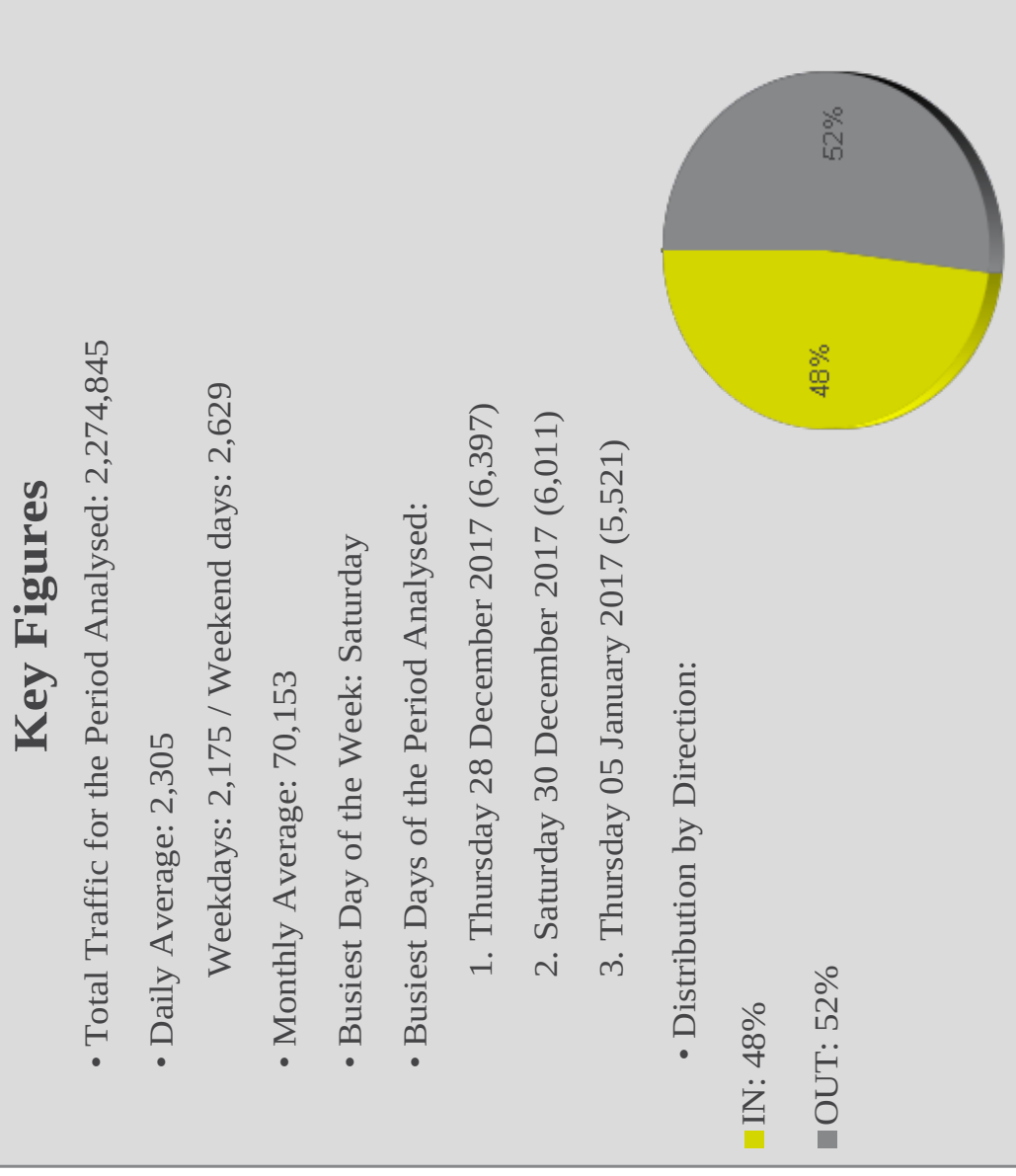


Waikorire Track

Period Analysed: Friday 01 January 2016 to Friday 14 September 2018



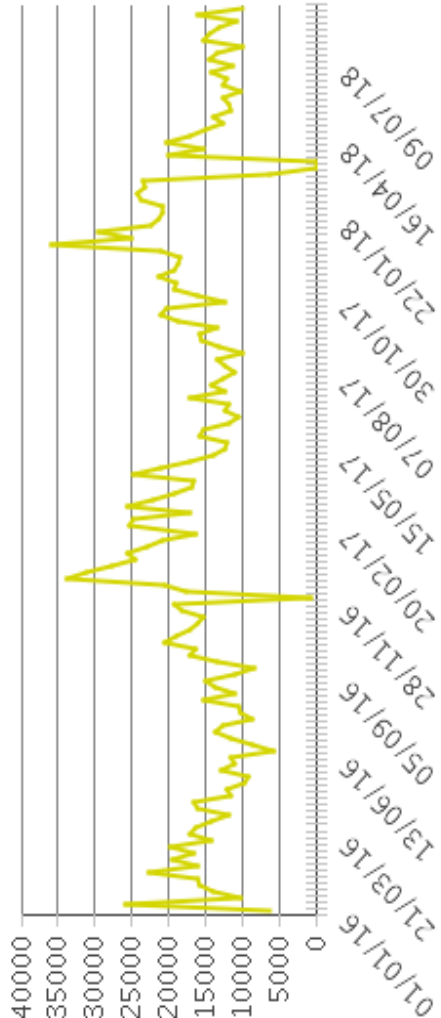
4/09/2018



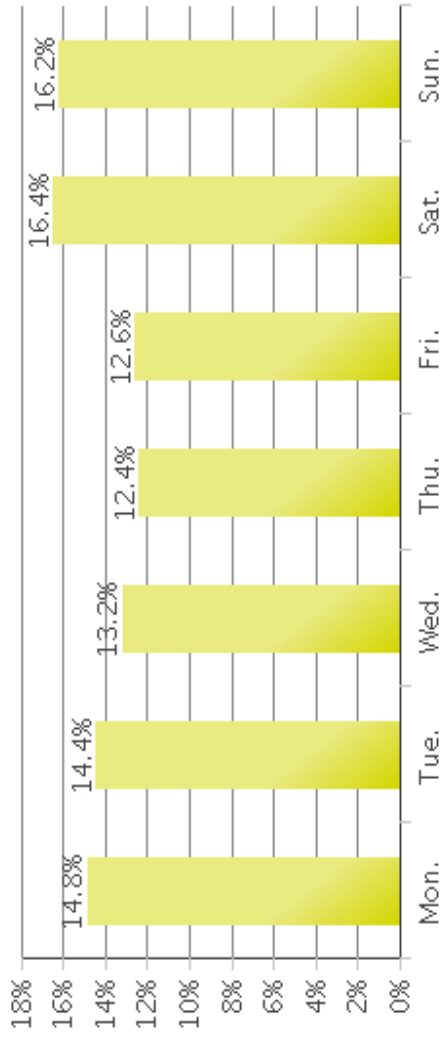
Waikorire Track

Period Analysed: Friday 01 January 2016 to Friday 14 September 2018

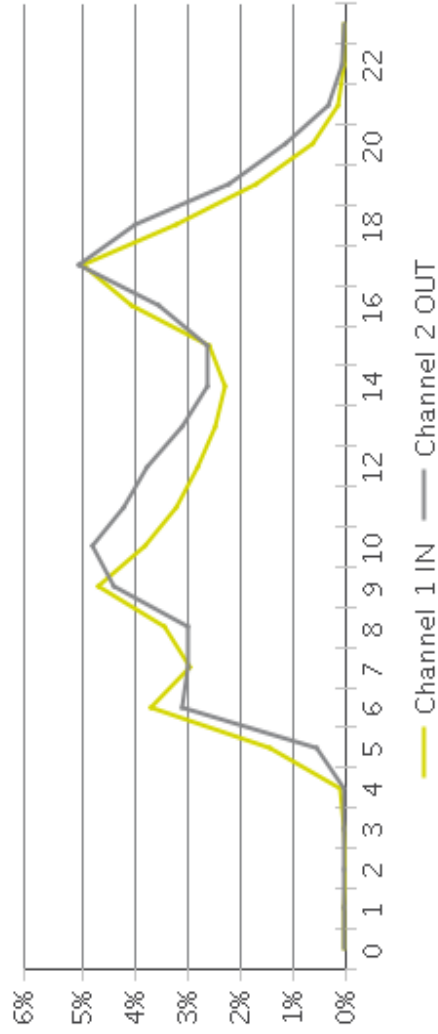
Weekly Traffic



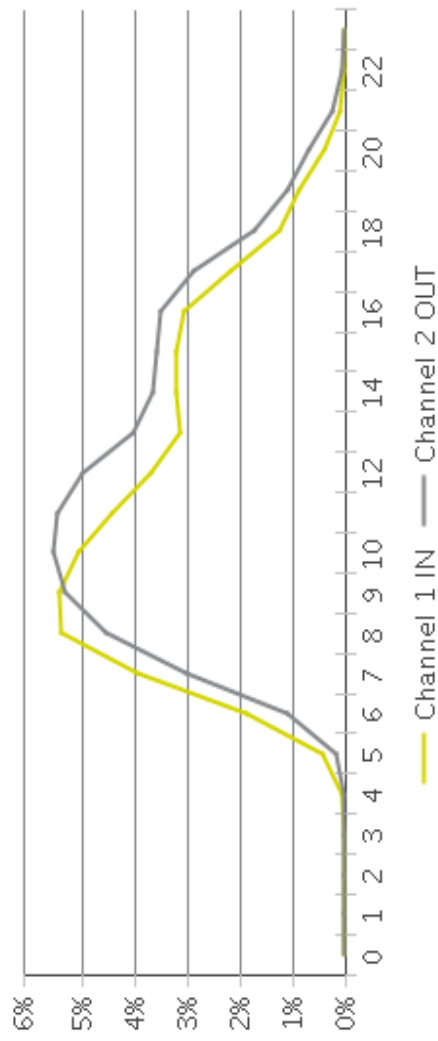
Weekly Profile



Hourly Profile during Weekdays



Hourly Profile during the Weekend



8.5.2 Appendix B - Mauao Historic reserve Archaeological Monitoring Report August 2018



**Archaeological Site Condition Monitoring
Report
Mauao Historic Reserve, Tauranga**

20 August 2018

Prepared for: Tauranga City Council
P O Box
TAURANGA

Prepared by: InSitu Heritage Ltd.
P O Box 710
WHAKATANE 3158

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1. Purpose

Mauao Historic Reserve is an extensive cultural heritage landscape that covers approximately 40 hectares. It is located on the eastern side of the entrance to Tauranga Harbour (Figure 1). The Reserve contains components of three pa, plus associated pits, terraces, platforms, house floors and middens. The shell mounds in the reserve are the only known surviving examples of this type of archaeological feature within the Bay of Plenty. Mauao is gazetted as a Historic Reserve and is managed by Tauranga City Council (TCC). Mauao is protected under the provisions set out in the Mauao Vesting Act 2008. The Trustees of the Mauao Trust administer the Reserve on behalf of Ngai Te Rangi, Ngati Ranginui and Ngati Pukenga. The Reserve must be managed in a manner consistent with the requirements of the Reserves Act 1977. Mauao is also identified as a wahi tapu on the Heritage New Zealand List (item no. 9423).

One of the key principles of historic heritage management is that the values of heritage places are clearly understood before decisions are taken that may result in change. Once the heritage values are identified and understood, the aspects of the places that possess heritage value can be conserved and protected accordingly. The visible archaeological features of the Reserve were mapped in 2003 and an archaeological report was prepared by Ken Phillips at that time. In 2004 a Conservation Plan was prepared for the Reserve by Wildland Consultants Ltd, which incorporated specialist archaeological advice to guide management and conservation of the archaeological sites within the Reserve. Phillips updated the archaeological report in 2014, and there have also been other archaeological reports prepared between 2003 and 2014 relating to particular work carried out under archaeological authority conditions within the Reserve.

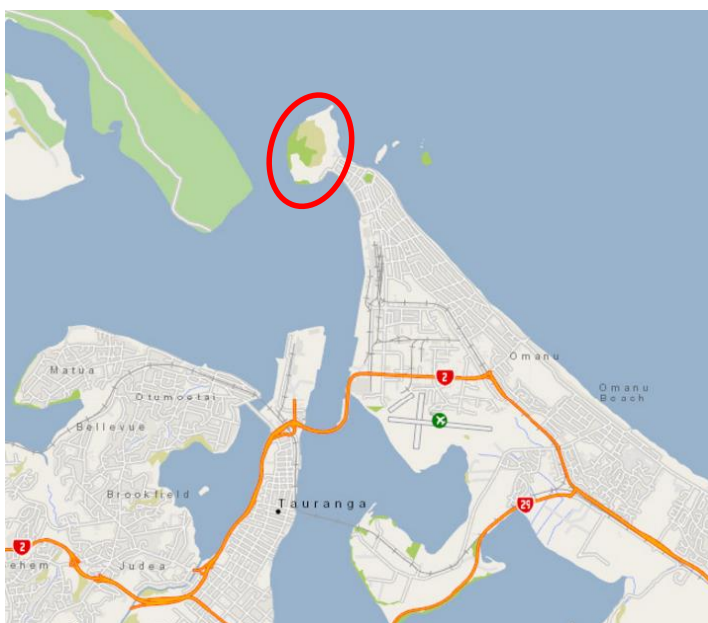


Figure 1: Location of Mauao Historic Reserve, Tauranga.



Figure 2: Plan showing recorded archaeological features on Mauao (Phillips 2003).

TCC were granted an archaeological authority (no. 2017/944) by Heritage New Zealand in August 2017, to undertake various activities associated with ongoing maintenance of the reserve. Heritage Management Specifications were prepared in May 2016 to guide the work permitted under the conditions of the archaeological authority. The specifications include the establishment and maintenance of an archaeological site condition monitoring programme. The conditions of the archaeological authority include a requirement that the authority holder (TCC) submit to Heritage New Zealand an annual report containing a summary of the maintenance works undertaken during the preceding year and outlining any archaeological work completed.

This report has been prepared to provide both a summary of the annual work programme undertaken during the period from August 2017 to 30 June 2018; and baseline data for ongoing archaeological site condition monitoring. The report includes recommendations for any work actions that may be required to address site management issues identified during the monitoring inspection.

2. Summary of reserve archaeological work 2017/18

Throughout the year several visits were made to the reserve relating to the proposed realignment of a section of the base track. This work has been separately reported.

Archaeological inspections specific to on-going reserve maintenance were carried out during the year as follows:

August 2017 – inspection and sign-off of emergency archaeological authority no. 2017/945EM2. Minor damage to pasture sward due to vehicle tracking was noted in the vicinity of the water reservoir. This has exposed midden in the turf and topsoil layer. To be monitored to ensure that sward re-establishes.

October 2017 – contractor induction day for archaeological authority no 2017/944. All contractors working within the reserve were advised of the requirements of the archaeological authority and familiarised with the sections of the Heritage Management Specification relevant to their work area. An annual meeting was also held to discuss the coming years work programme and a walk-through inspection of the reserve was completed.

December 2017 – Archaeological monitoring of the removal and repositioning of the slip debris spoil heap near the water reservoir; this included the removal of material that had been recently dumped adjacent to the 4WD track. There was no impact on any intact archaeological features. During the same visit repairs to a retaining wall in the motor camp were also inspected and a work plan was made to ensure that there would be no impact on intact archaeological features.

April 2018 – The annual condition monitoring inspection was carried out, and the proposed work programme for the coming year was discussed.



Figure 3: Slip debris spoil stock pile after restacking and shaping (InSitu Heritage Ltd April 2018).

3. Monitoring Data 2018

Mauao Historic Reserve			
Archaeological Site Condition Monitoring Form			
Inspection Done By	s 7(2)(a) - Privacy s 7(2)(f)(ii)	Date	30 th April & 3 rd May 2018

Monitoring point 1

Description: Stone Jetty surrounds – stone walls

Date: 30th April 2018

GPS coordinates: 5830061/1880110

Notes: Recent vegetation clearance completed. Constant on-going minor erosion of midden evident. Suggest that it is monitored for 2 years to see if we can establish if intact midden is eroding or whether it is previously displaced shell that is washing off the track surface. The stone jetty itself is stable, it would be good to establish the antiquity of the associated stone walls in this area and establish how much pre-1900 fabric remains.





Monitoring point 2

Description: Iron Jetty and surrounds

Date: 30th April 2018

GPS coordinates: 5829854/1879833

Notes: Vegetation clearance is required including pohutukawa growing on the stonework face of the jetty. Possible interpretation could be developed at the jetty. It should be maintained in low vegetation/ferns/rank grass, with periodic weed eating. The view shaft to the iron debris offshore should be opened and maintained.





Monitoring point 3

Description: Base track midden erosion.

Date: 30th April 2018

GPS coordinates: 5830032/1879527

Notes: This is potentially stabilising based on observations at previous visits, possibly as a result of less rabbit browse. There has been some recent planting in the vicinity. Monitor for 2 years and then reassess.



Monitoring point 4

Description: Fence placement, rabbit browse and slope stability

Date: 30th April 2018

GPS coordinates: 5830012/1879621

Notes: Fence alignment is on the edge of archaeological features, but there is no other practical fencing alignment available. The aim is to stabilise the slope below the features to prevent their loss due to landslip. There is more growth appearing on the slope since rabbit numbers were reduced. Midden is less visible.





By comparison photograph (above) was taken in February 2016, showing midden exposure on the slope.

Monitoring point 5

Description: Rabbit damage (inactive)

Date: 30th April 2018

GPS coordinates: 5830054/1879616

Notes: Old rabbit damage, visibility decreasing.





Comparison photography (above) taken in February 2016 when rabbit burrow was active.

Monitoring point 6

Description: Pa U14/173 condition/grass cover

Date: 30th April 2018

GPS coordinates: 5830054/1879616

Notes: General views across pa to demonstrate grass cover.



Monitoring point 7

Description: 4WD track maintenance issues – tailings management

Date: 30th April 2018

GPS coordinates: 5829983/1879734

Notes: 4WD maintenance routine is causing an on-going issue of tailings clearance. Artificial build up of material is 'creating' features adjacent to the track. Tailings should be removed off site to the stockpile by the reservoir. Remedial and maintenance issues relating to the 4WD track are on-going and have not been adequately addressed since the conservation plan was prepared in 2004. The distance between culverts, their function and the treatment of tailings needs to be improved.



Monitoring point 8

Description: Midden and vegetation management – mingimingi growth

Date: 30th April 2018

GPS coordinates: 5830123/1879699

Notes: Midden mound above water reservoir has good cover of mingimingi and it is gradually spreading to other mounds as sheep numbers have been reduced. Monitor spread and condition.



Monitoring point 9

Description: Erosion on shell mound – stock and vegetation management

Date: 30th April 2018

GPS coordinates: 5830201/1879607

Notes: Develop sheep exclusion trial and monitor results.





Sheep exclusion trial June 2018.

Monitoring point 10

Description: Rabbit damage (active)

Date: 30th April 2018

GPS coordinates: 5830147/1879522

Notes: Monitor condition of site after on-going rabbit control.



Monitoring point 11

Description: Land slip on southern slope

Date: 30th April 2018

GPS coordinates: 5830067/1879861

Notes: Recent planting of slip scar completed. Monitor stability/recovery of area.



Monitoring point 12

Description: Fence around middens on southern slope

Date: 30th April 2018

GPS coordinates: 5829968/1879788

Notes: Fence around middens is not required and should be removed. It was installed in

approximately 2003, ground has since stabilised. Remove fence and monitor result.



Monitoring point 13

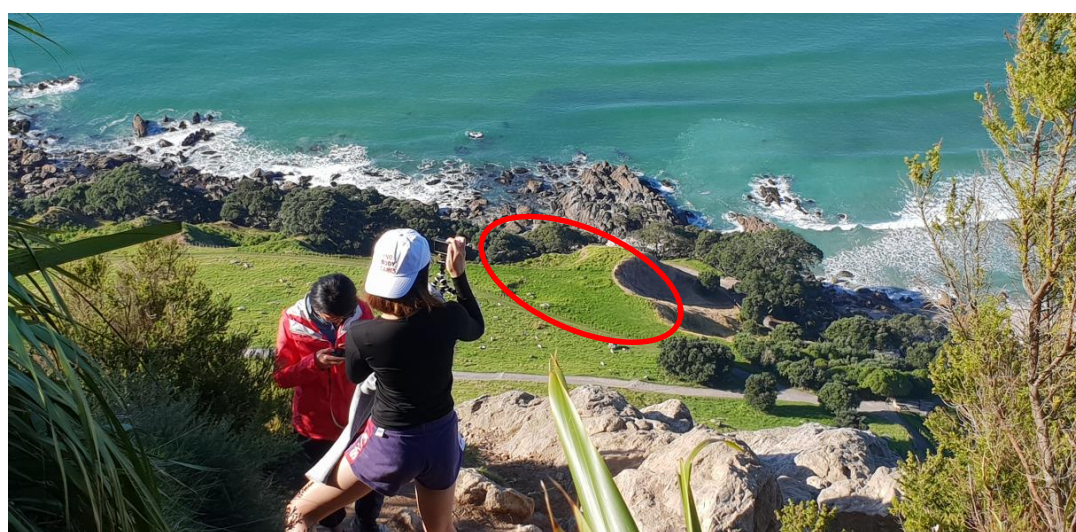
Description: Area of military camp, helicopter pad, pits and terraces, recently retired from grazing.

Date: 30th April & 3rd May 2018

GPS coordinates: 5830642/1880269

Notes: Monitor for stability and visibility following cessation of grazing.





Monitoring point 14

Description: Repair to summit terraces

Date: 3rd May 2018

GPS coordinates: 5830643/1879826

Notes: Repair to terraces completed in 2013. The aggregate at the base of the slope needs to be removed. Fence at the base should be better reinstated to prevent developing desire line.



Monitoring point 15

Description: Repair to bank on summit and steps installation

Date: 3rd May 2018

GPS coordinates: 5830461/1879907

Notes: Monitor the developing desire line/wear next to steps and act to block access if required.



Monitoring point 16

Description: General monitoring of summit wear

Date: 3rd May 2018

GPS coordinates: 5830439/1879930

Notes: Monitor wear of imported armouring material on summit and recap as/when required by bringing in additional material.



Monitoring point 17

Description: Desire line track on summit

Date: 3rd May 2018

GPS coordinates: 5830452/1879952

Notes: Developing desire line is causing wear to intact archaeological deposit. Monitor and act to block if wear continues.



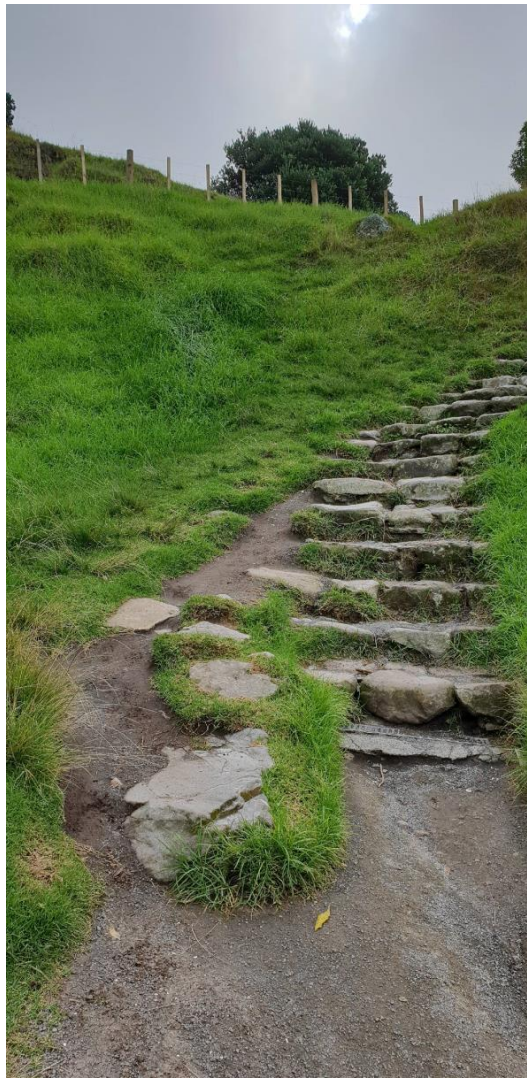
Monitoring point 18

Description: Stone steps condition and erosion

Date: 3rd May 2018

GPS coordinates: Not collected due to flat battery, **needs to be added**.

Notes: Monitor condition of stone work and desire line wear.



4. Annotated summary of work actions from heritage management specification

No.	Action	Timeframe	Comment on progress
1	Condition monitoring of capping and informal desire lines	On-going	Monitoring established April 2018.
2	Remedial action as required: addition of approved/suitable fill, or aggregate to address desire lines.	On-going as required in response to monitoring	On-going.
3	Large tree removal	2016-18	Delayed until 2019/20.
4	Remove smaller trees by felling at ground level, followed by herbicide application to stumps if necessary.	2016-17	On-going.
5	Land-slip assessment and response	2016 and on-going as required	On-going.
6	Retire large land slips above the 4WD track from grazing	2016/17	Not actioned to date, but some replanting in 2017.
7	Pest control in areas retired from grazing in 2005.	On-going as required following planting	On-going.
8	Weed control in areas retired from grazing in 2005.	Ongoing	On-going.
9	Establishment of pohuehue on shell mounds	2017	Trial commenced 2018.
10	Ensure archaeological authority is in place prior to any fencing or planting work above the base track on the north-eastern side of Mauao	2016	Archaeological authority no. 2017/944 in place.
11	Maintain walking and vehicle tracks	On-going	On-going. Work practice for 4WD track maintenance must be addressed.
12	Implement rabbit control programme	2016 and on-going	On-going.
13	Stone Jetty and associated stone walls heritage	2017	Not yet actioned.

	assessment		
14	Repair of stone walls associated with jetty	2017/18	Not yet actioned.
15	Monitoring and vegetation management of Iron Jetty platform	2016 and on-going	Not yet actioned.
16	Monitoring	2016 and on-going	Programme established 2018.

References

Phillips, K.J.S. 2003. Preliminary Archaeological Survey and Identification of threats to archaeological resources, Mauao Historic Reserve. Unpublished report to Tauranga District Council

Phillips, K. J.S. 2014. Archaeological Inspection and Conditions Assessment Mauao Historic Reserve. Unpublished report prepared for Tauranga City Council

Wildland Consultants Ltd. 2004. Conservation Plan For Mauao Historic Reserve. Unpublished report prepared for Tauranga District Council

9. Discussion of Late Items

10. Next Meeting

The next meeting of Ngā Poutiriao o Mauao has been scheduled for Tuesday, 4 December – 9.30 am.

11. Karakia